

**SIBIS – Workpackage 2:**  
**Topic research and indicator development**  
**Annexes on Newly Associated States (NAS)**

No. 1: Telecommunication and Access  
No.4: Education  
No. 5: Work, Skills and Employment  
No.6: Social Inclusion  
No.8: e-Government

by



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# 1 Telecommunications and Access

## 1.1 Key Policy Papers on Telecommunications and Access in the Information Society from the NAS

Title of document	Author	Year	Type of document
<b>Key supranational policy documents relevant to telecommunications and access</b>			
Resolution on the Harmonization of Broader Procedures and the Establishment of a Joint Information System in the Baltic States	Baltic Assembly	1995	Resolution
eEurope+ 2003. A Cooperative Effort to Implement the Information Society in Europe	European Commission and Candidate Countries	June 2001	Action Plan
eEurope+ 2003. Progress Report	European Commission and Candidate Countries	June 2002	Report
Ministerial Conclusions	European Ministerial Conference, Ljubljana	June 2002	Statement
<b>Key documents relevant to telecommunications and access from Bulgaria</b>			
Strategy for Information Society development	Ministry for Telecommunications	1999	Strategy
Strategy for hi-tech development	Government	1999	Strategy
Programme for modern ICT implementation in state administration	Government	1999	Action plan
Law for hi-tech activities and hi-tech parks	Parliament	1999	Bill (not yet passed)
National Programme for Information Society development	Ministry for Telecommunications	1999, 2001	Action plan
Analyses of technological development in Bulgaria	Ministry of Economy, CED	2001	Project documentation
Science, Technology and Innovation in the Republic of Bulgaria. Strategy and implementation	Ministry of Economy and Ministry of Education and Science	Oct 2002	Action plan
<b>Key documents relevant to telecommunications and access from the Czech Republic</b>			
National Telecommunications Policy of the Czech Republic	Ministry of Transport of the Czech Republic	1999	Other
State Information Politics – The Way to the Information Society	Czech Government	latest 1999	Other
Communication infrastructure for public administration (GovNet)	Government	2001	Strategy
Communication infrastructure for public administration (GovNet)	ÚVIS	2001	Other (contract)
Action Plan for the Realisation of the State's Information Politics	Office for Public Information Systems	latest 2002	Action plan
Proposal of the Change of the Telecommunication Law	Ministry of Transport of the Czech Republic	2002	Other
<b>Key documents relevant to telecommunications and access from Estonia</b>			
E-Europe+ 1 <sup>st</sup> Progress Report – Estonia	Ministry of Transport and Communications	March 2002	Report
Estonian Information Policy and ICT Coordination	Department of State Information Systems, Estonian Informatics Centre	Sep 2002	Report

Title of document	Author	Year	Type of document
IT in Public Administration Yearbook	Ministry of Economic Affairs and Communications	latest 2002	Report
E-Policy Development in Transition Economies – Estonia	Department of State Information Systems, Estonian Informatics Centre	2002	Report
Estonian National Development Plan – Single Programming Document 2003-2006 (Draft)	Ministry of Finance	2003	Strategy
<b>Key documents relevant to telecommunications and access from Hungary</b>			
Program on Information Infrastructure Development	Special committee nominated by the Gvt.	1986-1994	Action plan
Program on National Information Infrastructure Development (NIIF)	Special committee nominated by the Gvt.	1995-	Action plan
National Strategy on ICT	Government	1996	Strategy
Governmental Strategy on ICT	Government	1997	Strategy
Project on Broad-band Internet	Academy of Sciences	1997	Action plan
Széchenyi Plan	Ministry for Economy	2000	Collection of Support Measures
Strategy of the Ministry for Informatics and Telecommunication	Ministry for Informatics & Telecommunication	2002	Strategy
Tasks and jurisdiction of the Minister for Informatics and Telecommunication	Government	2002	Government Decree
National Development Plan	Prime Minister's Office	2002	Action plan
<b>Key documents relevant to telecommunications and access from Latvia</b>			
National program "Informatics" 1999-2005	Ministry of Transport	1998	Action plan
On regulators of public services	Parliament (Saeima)	2000	Law
Law on data protection of physical persons	Parliament (Saeima)	2000	Law
Regulations on security of information systems	Cabinet of Ministers	2000	Regulations
Conception on organisation of registration and state supervision system of Internet service providers	Ministry of Transport	2000	Green paper
Conceptual guidelines of socio-economic program "eLatvia"	Ministry of Economics	2000	Action Plan
On telecommunications	Parliament (Saeima)	2001	Law
Regulations on licensing of public services	Parliament (Saeima)	2001	Law
<b>Key documents relevant to telecommunications and access from Lithuania</b>			
Law on State Registers	Parliament	1996	Law
Law on Provision of Information to the Public	Parliament	1996	Law
Law on Telecommunications	Parliament	1998	Law
Law on Electronic Signature	Parliament	2000	Law
Law on Legal Protection of Personal Data	Parliament	1996, 2000	Law
Law on the Right to Receive Information from State and Municipal Authorities	Parliament	2000	Law
The Conceptual framework of the national information society development of Lithuania	Government	2001	Resolution
Integrated Customs Information Systems	Government	2001	Action Plan
Analysis of quality of communication between citizens and governance by Internet	Law University of Lithuania	2001	Report
Strategic Plan of Lithuanian Information Society Development	Government	2001	Documentation

Title of document	Author	Year	Type of document
Digital Lithuania 2001	The Information Society Research Center of Vilnius University	2001	Report
Privacy and security on the Lithuanian Internet	Union of Lithuanian Computer Specialists	2001	Report
<b>Key documents relevant to telecommunications and access from Poland</b>			
White Book	Office of the Council of Ministers, State Committee for Scientific Research	1995	White book
Strategy of IT Development in Poland (1)	Polish IT Society	April 1995	Report
Strategy of telecommunications and IT researches in Poland on the verge of Information Society	Committee of Electronics and Telecommunications, Academy of Sciences	June 1997	Law
Strategy of IT Development in Poland (2)	Polish IT Society	June 1999	Report
Poland 2025 Long-term Strategy of Lasting and Sustainable Development	State Committee for Scientific Research	July 2000	Strategy
Act of RP's government concerned building bases of information society in Poland	Parliament	July 2000	Law
Act of July 21, 2000 Telecommunication Law (O.J. No 852)	Parliament	July 2000	Law
Pioneer: Polish Optical Internet – Advanced Applications, Services and Technologies for Information Society	State Committee for Scientific Research	Sep 2000	Strategy
Aims and Directions of the Information Society development in Poland	State Committee for Scientific Research	Nov 2000	Strategy
Law on State Registers in 2001 (citizens, apartments) and 2002 (farms)	Parliament	latest 2000	Law
National Program of preparation for membership in EU	State Committee for Scientific Research	June 2001	National Program
Act of August 24, 2001 Amending the Telecommunications Law	Parliament	Aug 2001	Law
URT President's position paper: Interconnection model and interconnection rates	Office of Telecommunication and Post Regulation	Aug 2001	statement
ePolska- Action plan: 2001-2006	Ministry of Economy	Sep 2001	Action Plan
Act of December 21, 2001 - Amending the Telecommunications Law; and on Amendments to Certain Acts - fragments related to telecommunications (O.J. No 154, item 1802, 29 Dec 2001)	Parliament	Dec 2001	Law
Model for Interconnection Rates between Telephone Network Operators and Internet Service Providers	Office of Telecommunication and Post Regulation	Dec 2001	Statement
Report on the telecommunication services quality	Office of Telecommunication and Post Regulation	latest 2001	Report
Act of September 18, 2001 on electronic signature	Parliament	2001	Law
Act of August 29, 1997 on Legal Protection of Personal Data	Parliament	latest 2001	Law
Act of September 6, 2001 on Provision the Information to the Public	Parliament	2001	Law
Act of July 27, 2001 on databases security	Parliament	2001	Law
Reports on the action plan realisations	State Committee for Scientific Research	2001, 2002	Report

Title of document	Author	Year	Type of document
"Telecommunication Law Changes Project" - evaluation	Telecommunication Development Department of Ministry of Infrastructure	2001, 2002	Evaluation
ePolska-2006: Active plan for IS development in Poland	Ministry of Infrastructure	2002	Action Plan
Act on electronic payment instruments	Parliament	Sep 2002	Law
„Telecommunication Services Market in Poland in 2001”	Office of Telecommunication and Post Regulation	2002	Report
Programme of proinvestment activities in ICT in Poland	National Agency for Foreign Investments	2002	Programme – action plan
Strategy of IT Implementation in Poland	State Committee for Scientific Research	March 2003	strategy
<b>Key documents relevant to telecommunications and access from Romania</b>			
Information about the Romanian PC-market	Romanian Government & Ministry of Information and Communication Technology	2001	Report
Statistic indicators about Internet in Romania	Romanian Government & Ministry of Information and Communication Technology	2001	Report
General information about IT in Romania	Romanian Government & Ministry of Information and Communication Technology	2001	Report
White paper of PSD governance	Romanian Government	2001	Report
<b>Key documents relevant to telecommunications and access from Slovakia</b>			
Act N. 100/1996 on protection of state secrets and information	Government	1996	Law
Telecommunication policy of the SR for the Years 2000 - 2002	Ministry of Transport, Posts and Telecommunication	2000	Strategy
Act N.195/2000 on telecommunication	Government	2000	Law
Act N. 308/2000 on vysielaní (a retransmission and update of Law on telecommunication)	Government	2000	Law
National Policy on Informatisation	Ministry of Transport, Posts and Telecommunication	2001	Strategy
National Policy on Electronic Communication	Ministry of Transport, Posts and Telecommunication	2002	Strategy (to be approved)
Law N. 211/2002 on Provision of Information to the Public	Government	2002	Law
Yearbook Information Society	Statistical Office of the Slovak Republic	2003	Report
<b>Key documents relevant to telecommunications and access from Slovenia</b>			
eEurope+ implementation activities in Slovenia	Ministry of Information Society	2001	Report
Media Act (ZMed)	Government	2001	Law
National Development Plan (NRP RS 2001-2006)	Government	2001	Action Plan
National Programme of the Development of Telecommunications (NPRTel)	Ministry of Information Society	2001	Programme
Telecommunication Act (ZTel-1)	Government	2001	Law

<b>Title of document</b>	<b>Author</b>	<b>Year</b>	<b>Type of document</b>
The Provision on the Foundation of the Working Group for Secure Internet and e-Commerce	Ministry of Information Society	2001	Report
The Resolution on the foundation of the Agency for Telecommunication and Radio diffusion of RS	Government	2001	Resolution
The Strategy of Economic Development in RS 2001-2006 (SGRS 2001-2006)	Government (UMAR)	2001	Strategy
The Strategy of Republic of Slovenia in Information Society	Ministry of Information Society	2002	Strategy

## 1.2 NAS Data Sources on Telecommunications and Access in the Information Society

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
<b>Key supranational data sources on Telecommunications and Access in the Central European Opinion Research Group Information Society</b>					
Central European Opinion Research Group (CEORG)	Computers, Internet, Mobile Phones: Household Equipment and Users in Some Countries of Central and Eastern Europe	Comparative research (survey) Areas: computers usage, Internet usage, mobile phone usage, Social posture in case of fast development of Internet	Central European Opinion Research Group	PL, CZK, HUF, ROL, RUS	May 2002
eEurope+2003, progress report, June 2002	Joint High Level Committee	An overview of action undertaken by the candidate countries since the adoption of the eEurope+ Action Plan, listing indicators measuring Information society	Joint High Level Committee	NAS including LV	2001
ENLARGE – e-business in SMEs	www.enlargement.org e Week BG	SMEs	Project ENLARGE	BG,CY,SL,PI,RO	
European Survey of Information Society (ESIS II) – Extension to Central and Eastern European Countries and Mediterranean Area	ESIS Knowledge Base	The inventory was build with information collected via a standardised questionnaire which was translated in all local languages. The questionnaire is available on the website to be filled in by project promoters. <sup>1</sup>	ISPO	CEEC and Mediterranean countries	updated every three months
Information society statistics	Statistics in focus, Theme 4-37/2001, 4-17/2002,	Information society statistics	Eurostat	NAS	1990, 1998, 1999, 2000, 2001
NETCRAFT – commercially available data	see <a href="http://www.netcraft.com/">http://www.netcraft.com/</a>	Internet servers	NETCRAFT	World	Monthly
OECD Data Collection on ICT Sector	OECD 2000meas	various	OECD	OECD	various, latest published: 2000

<sup>1</sup> Topics: Telecommunications basic indicators, Regulatory developments, Alternative networks, IS Promotional activities, IS Key persons contacts and organisations, www sites indicators, statistical analysis of the ESIS II database, Estimation of Information Society projects



Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
PHARE – Indicators for monitoring and comparison of implementation of 'e-Europe'	www.mtc.government.bg	10 Candidate countries	Ministry of Transport and Communications	10 NAS	
Reports on Monitoring Candidate Countries (Telecommunication Services Sector)	1st Report on Monitoring of EU Candidate Countries (PWC Consulting, 2002); 2nd Report on Monitoring of EU Candidate Countries (IBM, 2002)	Various sources	PWC Consulting, IBM	NAS	Various
Structural Indicators	Various EC publications	Various sources	Eurostat	EU, NAS	Annually
<b>Key data sources on Telecommunications and Access in the Information Society from Bulgaria</b>					
Surveys of ICT implementation in households and public administration	www.stat.bg www.nsi.bg	Households and public administration	NSI Bulgaria	BG	
<b>Key data sources on Telecommunications and Access in the Information Society from the Czech Republic</b>					
CESNET	Vysokorychlostní síť národního výzkumu a její nové aplikace, 2002 (Annual report; www.cesnet.cz/doc/2002/zprava)	Informations on the national research and education network CESNET	CESNET	CZ	Annually since 1996
Commercial data on Internet-related issues	Unpublished (or only partially published as press information)	Surveys of the agencies, mostly GPS	GfK, TNSF, STEM/MARK	CZ	published data, possibility to buy the data sources
CSÚ	VŠPS (Survey on workforce); Česká statistická ročenka (Statistical yearbook)	Different surveys and statistics - technologies that respondents have/use at home, number of mobile operator equivalents in OECD countries, households with home access to the Internet, internet connection by Industry	CSÚ – Czech statistical office	CZ	Česká statistická ročenka every year; VŠPS quarterly, since 2002 with supplement about the ICT

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
CTU	www.ctu.cz	Information from databases (on demand) cable TV subscribers, digital main lines, mobile subscriptions, Internet hosts, main lines per 100 inhabitants, number of Telecoms License holders	Ceský telekomunikační úřad	CZ	Annually since 1993
MDS	www.mds.cz	Database of Czech Internet servers	MDS – Media Data System	CZ	since 1994
Survey on ICT usage in enterprises	Information from database (on demand), publication will be released in fourth quarter 2003 - CSU	Statistical information on enterprises	CSU – Czech statistical office	CZ	ICT usage in enterprises - annually since 2002 (reference years since 2000)
Survey on ICT usage in government	Information from database (on demand) available in fourth quarter 2003 - CSU	Statistical information on government	CSU – Czech statistical office	CZ	ICT usage in government - annually since 2003 (reference years since 2002)
Survey on ICT usage in households	Information from database (on demand), publication will be released in fourth quarter 2003 - CSU	Statistical information on households	CSU – Czech statistical office	CZ	ICT usage in households - annually since 2002
TESTCOM	Statistical data about telco market at CR	Statistical information – telco market	MICR	CZ	Year
ÚIV	Basic Indicators on the Incorporation of ICT into European Education Systems (Euridice <sup>2</sup> ); ICT@Europe.edu: Information and Communication Technology in European Education Systems (Euridice <sup>3</sup> )	Statistics and surveys on schools in CZ; indicators on official educational policy	ÚIV – The Institute for Information on Education	CZ	mostly early indicators
<b>Key data sources on Telecommunications and Access in the Information Society from Estonia</b>					

<sup>2</sup> [www.euridice.org/Documents/TicBl/en/FrameSet.htm](http://www.euridice.org/Documents/TicBl/en/FrameSet.htm)

<sup>3</sup> [www.euridice.org/Documents/survey4/en/FrameSet.htm](http://www.euridice.org/Documents/survey4/en/FrameSet.htm)

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Community Survey on ITC usage in enterprises (e-commerce) (Eurostat)	Statistical Office of Estonia, Monthly Statistics 11/2002	Enterprises	Statistical Office of Estonia	EE	2001, 2002
Comparison of Estonian and European ICT sectors' state of affairs and developments.	IT in Public administration of Estonia. Yearbook	Using local or central government information	Liivar Leppik, Foundation Archimedes	EE	2001
Estonia's Digital Divide and How to Bridge It (Survey)	Estonia's Digital Divide and How to Bridge It	Population aged 15-74	Emor & PRAXIS Center for Policy Studies	EE	2002
E-track survey	IS indicators of Estonia <a href="http://www.eik.ee">www.eik.ee</a>	Population aged 15-74	Emor Ltd; EIC	EE	2001, 2002
E-track among children	IS indicators of Estonia	Young persons aged 6-14	Emor Ltd	EE	2001
E-track and Gallup e-ratings	<a href="http://www.emor.ee">www.emor.ee</a>	Top- and medium-level managers	Emor Ltd.	EE	2001
Household Income and Expenditure Survey	Household Living Niveau. Yearbook	820 households per month	Statistical Office of Estonia	EE	1latest 2001
Information technology and internet in Estonian companies (+Latvian and Lithuanian companies)	IS indicators of Estonia	Companies (500) with 1 computer at least	Emor Ltd	EE	2001, 2002, 2003
Monitoring of ICT Sector in EU Candidate Countries	1st Report on Monitoring of EU Candidate Countries (Telecommunications Services Sector)	Various sources	PWC	EE	2002
National Communications Board (NCB) Report	NCB Annual Report	Data collection, various sources	NCB	EE	2002
TSN Interactive-Global eCommerce Report. Estonia	<a href="http://www.tnsolfres.com">www.tnsolfres.com</a>	Enterprises		EE	2002
The usage of online services provided by state and government agencies	IS indicators of Estonia	State agencies	Emor Ltd	EE*	2001, 2002
Use of software in home computers	IS indicators of Estonia	Inhabitants aged 15-74	Emor Ltd	EE	2002
<b>Key data sources on Telecommunications and Access in the Information Society from Hungary</b>					
Anonymous Survey on Mobile Communication	<a href="http://www.bellresearch.hu">www.bellresearch.hu</a>	Population survey among persons	BellResearch and Think Consulting	HU	2000
Bell Research Internet Survey	Bell Research Internet Report, see <a href="http://www.bellresearch.hu">www.bellresearch.hu</a>	Population survey among persons	Bell Research Ltd., Budapest	HU	2002
Broadband Internet Survey	Market Potential of Broadband Internet based applications	Population survey among persons	Bell Research Budapest and Siemens Hungary	HU	2002

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Commerce of IT devices.		Commercial enterprises	Hungarian Central Statistical Office (HCSO)	HU	Annually
Composition of IT activities and returns on sales realized from IT activities		Companies outside the sector No. 72 for IT activities. Full population for companies over 49 employees, plus a representative sample of companies under 50 employees.	Hungarian Central Statistical Office (HCSO)	HU	Annually
Data on Internet providers		Internet provider companies	Hungarian Central Statistical Office (HCSO)	HU	Quarterly
E-commerce Survey	www.gki.hu	Population survey among persons	GKI Gazdaság-kutató Rt., Webigen Rt. and Sun Microsystems Hungary	HU	2002
E-Health Survey among General Practitioners, hospitals and other health institutions	www.gki.hu	Interviews with General Practitioners, hospitals and other health institutions	GKI Gazdaságkutató., a Westel Rt. and Sun Microsystems Hungary	HU	2002
Electronic content provision		Organizations providing electronic content (internet based radio stations, ras rádiók, publishing houses, Internet portals and others)	Hungarian Central Statistical Office (HCSO)	HU	Annually
Equipment and services of Internet providers		Internet provider companies	Hungarian Central Statistical Office (HCSO)	HU	Annually
Habits of ICT use and inventories of ICT assets in the business sphere		Full population for companies over 49 employees, plus a representative sample of companies under 50 employees.	Hungarian Central Statistical Office (HCSO)	HU	Annually
The household segment of the market of Internet provision	The household segment of the market of Internet provision. Full report downloadable from www.kod.hu	Population survey among 1500 persons	Kód Gazdaság-és Média kutató Intézet, Budapest	HU	2002
Global E-commerce Survey	Global E-commerce Report	Survey among small and medium sized companies	Taylor Nelson Sofres Ltd., Budapest	HU	2002

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Hungarian Household Panel Survey of the TÁRKI Social Research Inc.	Ten Years (Tíz Év) - A summary of Tarki Monitor Reports. Budapest 2001 dec.	Nation-wide sample of 2600 household sample since 1991	TÁRKI Social Research Inc. Budapest	HU	Annual panel between 1991 to 1997. Since 1997: independent household surveys.
"I-Basic 2002"	"I-Basic 2002" Netsurvey Report, see <a href="http://www.netsurvey.hu">www.netsurvey.hu</a>	Population survey among persons	Netsurvey Media Research Ltd. Budapest	HU	2002
Informatics activities		Companies in sector No. 72 (IT activities)	Hungarian Central Statistical Office (HCSO)	HU	Annually
Information Society Monitoring Project "Virtuális Tér Figyelo Rendszer"	Fabian Z. and al: "Internet usage of households". See <a href="http://www.tarki.hu">www.tarki.hu</a>	Various surveys targeted on households, schools and companies.	Consortium of research institutes led by TÁRKI Social Research Inc. on behalf of the State Commission for Informatics and Telecommunication.	HU	2001-2002
Information Technology and Public Administration Services	" Information Technology and Public Administration Services" Aula Publishing House, 2002. In Hungarian.	Representative survey of 800 persons	Budapest University of Economics and Public Administration	The town Kaposvar and the surrounding settlements	2002
Internet service provision activities		Internet provider companies	Hungarian Central Statistical Office (HCSO)	HU	Annually
Media Analysis	<a href="http://www.szondaipsos.hu">www.szondaipsos.hu</a>	Annually 30.000 persons	Szonda Ipsos Market and Media Research Inc.	HU	Monthly
Netsurvey Internet Report	<a href="http://www.netsurvey.hu">www.netsurvey.hu</a>	Population survey conducted in 8 big cities of 4 counties.	Netsurvey Media Research Ltd. Budapest	HU	2000, 2001, 2002
Online-Advertisement Survey	<a href="http://www.netsurvey.hu">www.netsurvey.hu</a>	Interviews with decision makers 138 medium sized and big companies	Netsurvey	HU	2002
Purchasing habits of Internet users Survey	<a href="http://www.bellresearch.hu">www.bellresearch.hu</a>		BellResearch and Dotkom Internet Consulting	HU	2002
Survey among local governments on their ICT penetration	Hungarian Infocommunication Report, Local Government Chapter		BellResearch and Think Consulting	HU	2002

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Telecommunication, cable TV and IT services		Companies in sector No. 64 (Post and telecommunication) and of sector No. 72 (IT activities)	Hungarian Central Statistical Office (HCSO)	HU	Quarterly
Traffic data of Internet service providers		Internet provider companies	Hungarian Central Statistical Office (HCSO)	HU	Monthly
Various sectoral surveys of the Hungarian Central Statistical Office	(1) The Information and Communication Sector In Hungary. (Az IKT Szektor Magyarországon). Bi-annual publication since 2000.	Based on secondary usage of Hungarian Central Statistical Office surveys designed for other purposes.	Hungarian Central Statistical Office, Service Statistics Department	HU	(1) Bi-annual publication since 2000. New issue: Spring 2003.
World Internet Project, Hungarian survey	Only media publications, see www.tarki.hu	Population survey among 5200 persons	TÁRKI Social Research Inc. Budapest and ITTK Information Society Trends Center	HU	Annually, since 2001
<b>Key data sources on Telecommunications and Access in the Information Society from Latvia</b>					
Data of Central statistical bureau	Computer usage in enterprises, Internet usage (number of computers, number of Internet connections, etc.), e-commerce	Response on e-Europe+ initiative, data collection is based on Eurostat module 491, survey questionnaires are used	Central statistical bureau	LV	2000, 2001
Data of Central statistical bureau	Cable TV network usage (number of customers, employees, financial figures, etc.)	Response on UNESCO initiative, data collection based on Eurostat module 493, survey questionnaire is used	Central statistical bureau	LV	2001
Data of Central statistical bureau	The statistical yearbook	Data on all topics characterising the development of country	Central statistical bureau	LV	Annually
Department of informatics at Ministry of transport	Market of IT and telecommunications (percentage of digital network, number of mobile network customers, number of ISDN lines, etc.)	Control of development of ICT sector	Ministry of Transport	LV	1998, 1999, 2000

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Department of informatics at Ministry of transport	Equipment used to benefit from ICT services (number of telephones, modems, computers in households and business, etc.)	Control of development of ICT sector	Ministry of Transport	LV	1998, 1999, 2000
Ministry of Economics	Report on development of Latvia's national economy	Data on all topics characterising the development of country	Ministry of Economics	LV	2000, 2001
United Nations Economic Commission for Europe, Coordinating Unit for Operational Activities, Riga, 2002	Towards a knowledge-based economy, Country readiness assessment report, Latvia	Towards a knowledge-based economy	United Nations Economic Commission for Europe, Coordinating Unit for Operational Activities, Riga, 2002	LV	2002
Website of Lattelekom (www.Lattelekom.lv)	Data on largest fixed network services provider in Latvia	Available data important for topic T&A	Lattelekom	LV	
Website of LMT (www.lmt.lv)	Data on one (of two) mobile services provider in Latvia	Available data important for topic T&A	LMT	LV	
Website of Tele2 (www.Tele2.lv)	Data on one (of two) mobile services provider in Latvia	Available data important for topic T&A	Tele2	LV	
Website of Latvia's Internet association (www.lia.lv)	Data on Internet services customers	Available data important for topic T&A	LIA	LV	2002
<b>Key data sources on Telecommunications and Access in the Information Society from Lithuania</b>					
eEurope+ Progress Report	Information and informatics department to the Ministry of Interior, Statistics Lithuania 2001, 2002	An overview of action undertaken by the candidate countries since the adoption of the eEurope+ Action Plan, listing indicators measuring Information society	Information and informatics department to the Ministry of Interior, Statistics Lithuania	LT	Half-annually
Information society development in Lithuania	Statistics Lithuania 2002	Overview of ICT sector development in Lithuania – includes comparisons with EU and other candidate countries	Statistics Lithuania	LT	Annually
IT usage in enterprises	Statistics Lithuania 2001, 2002	Volumes of PC and Internet usage in companies	Statistics Lithuania	LT	Annually

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
IT usage in households	Statistics Lithuania 1999, 2000, 2001, 2002	PC and Internet accessibility in households	Statistics Lithuania	LT	annually
IT usage in public administration	Statistics Lithuania and Information Society Committee to the Government of Lithuania 2002	Volumes of PC and Internet usage in public administration	Statistics Lithuania and Information Society Committee to the Government of Lithuania	LT (municipalities, central administration)	Annually
<b>Key data sources on Telecommunications and Access in the Information Society from Poland</b>					
Communication – activity results	Communication – activity results; Statistical Yearbook of the Republic of Poland	Economic entities, budgetary establishments and auxiliary units of budgetary entities in accordance with NACE, public utility enterprises.  Data compiled on the basis of reports, in which data concerning sales revenues of products and services of economic entities employing up to 9 persons are established on the basis of the result of a sample survey conducted on a 5% sample of these entities.	GUS <sup>4</sup> - Central Statistical Office	PL	Annually
Household budgets	Household budgets; Statistical Yearbook of the Republic of Poland	0,3 % of all groups of households, with the exemption of those living in institutional households as well as households whose members are foreigners	GUS – Central Statistical Office	PL	quarterly
<b>Key data sources on Telecommunications and Access in the Information Society from Romania</b>					
Cable Communications Association - CCA	Statistics	Number of households with a connection to cable Television	Cable Communications Association	RO	Annually since 2000
Ministry of Information and Communication Technology - MICT	Reports	The number of mobile phone subscribers in business and in personal communication	Ministry of Information and Communication Technology	RO	Annually since 2000

<sup>4</sup> Główny Urząd Statystyczny – Central Statistical Office



Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Ministry of Telecommunications	Annual Reports	ICT, internet jobs	Ministry of Telecommunications	RO	Annually since 2000
National Association of Romanian Internet Service Providers - ANISP	Statistics	Internet applications used in past 3 months; Internet access affordability-high speed connection	National Association of Romanian Internet Service Providers	RO	Annually since 2000
National Association of Software and Service Industry - ANSSI	Statistics	Internet applications used in past 3 months	National Association of Software and Service Industry	RO	Annually since 2000
National Institute for R&D in Informatics - ICI	Reports	Internet access affordability-high speed connection	National Institute for Information Research - ICI	RO	Annually
ROMTELECOM	Reports	Main lines per 100 inhabitants Price of calls between fixed and mobile networks	ROMTELECOM	RO	Annually since 1998
<b>Key data sources on Telecommunications and Access in the Information Society from Slovakia</b>					
Census of population 2001	Census of population, houses and flats of Slovak Republic to 26 May 2001.	PC in households	Statistical Office of Slovak Republic (SU SR)	SK	Reports of Statistical Office of Slovak Republik. Every 10 years.
Household Budget Survey (HBS)	Income, Expenditures and Consumption of Households in the SR, Internal IT materials	Structure of income and expenditure of households Survey unit is together managing household	Statistical Office of the Slovak Republic	SK	Annually
Information Technologies in Households	Selected Indicators on IT in households	Census Households by EUROSTAT and OECD methodology	Statistical Office of the Slovak Republic	SK	Annually, data will be available from 2003
Information Technologies in enterprises	Selected Indicators on IT in enterprises	Annual survey by EUROSTAT and OECD methodology	Statistical Office of the Slovak Republic	SK	Annually, data will be available from 2003
Microcensus of households 2003	Microcensus of households 2003	Sample survey	Statistical Office of Slovak Republic	SK	annually <sup>5</sup>

<sup>5</sup> A sample survey takes place in 2003 for collecting data for year 2002.

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Program of State Statistical Surveys	Selected indicators on Information Technology, Health Insurance Companies, the Social Insurance Agency and the National Labour Office and all Government sector	Annual survey of Information society in e-Government by OECD methodology, employees in compulsory insurance companies	Statistical Office of the Slovak Republic	SK	Annually, data will be available from 2003
Statement on Observatory, Planetarium, Astronomical Point and Astronomical Cabinet KULT(MK SR) 14-01	Selected indicators on culture in the SR	Volumes of PC and Internet usage in Observatory, Planetarium, Astronomical Point and Astronomical Cabinet	Central Slovak Observatory, Ministry of Culture	SK	Annually, data will be available from 2003
Telecommunications statistics	Slovak Republic - Telecommunication Sector ( <a href="http://www.telecom.gov.sk/telekom/statistika/index.htm">http://www.telecom.gov.sk/telekom/statistika/index.htm</a> )	Telecommunications & Access statistics	Ministry of Transport, Posts and Telecommunications (MDPT SR)	SK	Annually
<b>Key data sources on Telecommunications and Access in the Information Society from Slovenia</b>					
Healthcare and Pharmacy	Vehovar et al.	GPS, WWW	FDV (RIS)	SI	1997, 1998, 2000, 2001
ICT Indicators for Slovenia and EU	Vehovar et al.	GPS	MIS	SI, EU	2001
ISPs	Vehovar et al.	GPS	FDV (RIS)	SI	1996-2002
ISPs 2000/2001	Vehovar et al.	DMS	FDV (RIS)	SI	1996-2002
Information Technologies in Households	Vehovar et al.	GPS	FDV (RIS)	SI	1996-2002
Internet Access in Households	Vehovar et al.	GPS	FDV (RIS)	SI	1996-2002
Mobile Telephones	Vehovar et al.	GPS	FDV (RIS)	SI	1997-2001
The Report on Financing the Research Activities from State Budget of RS in 2001	Ministry of Education, Science and Sport		Ministry of Education, Science and Sport	SI	2002
SJM (Sloveniana Public Opinion)	FDV	Persons >17	FDV (CJMMK)	SI	Annually
Statistical Yearbook of the Republic of Slovenia 2001	SORS	GPS	SORS	SI	Annually
Telekom Annual Report	Telekom		Telekom	SI	Annually

### 1.3 NAS Indicators on telecommunications and access in the Information Society

#### 1.3.1 Overview of selected indicators available for various countries<sup>6</sup>

Name of indicator	BG	CZ	EE	HU	LV	LT	PL	RO	SK	SI
<b>Traditional Telecommunications Infrastructure</b>										
Fixed lines per 100 inhabitants	ITU	ITU	ITU	ITU	ITU	ITU	ITU	ITU	ITU	ITU
Fixed lines per 100 households	ITU	ITU	ITU	ITU	ITU	ITU	ITU	ITU	ITU	ITU
Monthly line rental charge of fixed incumbent operator for residential users	IBM	IBM	IBM	IBM	IBM	IBM	IBM	IBM	IBM	IBM
Local and long-distance call charge	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC
Monthly line rental charge of fixed incumbent operator for residential users	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC
Monthly line rental charge of fixed incumbent operator for business users	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC
Telecommunication Market Value (Estimate)	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC
Interconnection charges between fixed networks	-	PwC	PwC	PwC	-	-	PwC	-	-	PwC
Number of payphones per 1000 inhabitants	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC
Number of Telecoms License holders	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC
Number of Personal Computers (PC):	ITU	ITU	ITU	ITU	ITU	ITU	ITU	ITU	ITU	ITU
Information Technology (IT) expenditures	EITO	EITO	EITO	EITO	EITO	EITO	EITO	EITO	EITO	EITO
Telecommunications expenditures	EITO	EITO	EITO	EITO	EITO	EITO	EITO	EITO	EITO	EITO
<b>Broadband</b>										
Digitalisation rate of fixed networks	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC

<sup>6</sup> The table contains indicators for which indicators and data are available at the time of writing (national/international sources are mentioned). This does not mean, however, that direct comparability between countries is given in each case.

Name of indicator	BG	CZ	EE	HU	LV	LT	PL	RO	SK	SI
Digital main lines	MTC	CSÚ	PwC	-	IDMT	-	-	Min. of Telecom	-	Telekom
Percentage of households passed by CaTV operators	IBM	IBM	IBM	IBM	IBM	IBM	IBM	IBM	IBM	IBM
Cable TV subscribers	MTC	CSÚ	SOE	-	IDMT	-	-	Min. of Telecom.	-	RIS
Price for national leased lines	IBM	IBM	IBM	IBM	IBM	IBM	IBM	IBM	IBM	IBM
Price for international leased lines	IBM	IBM	IBM	IBM	IBM	IBM	IBM	IBM	IBM	IBM
<b>Internet</b>										
Number of Internet service providers (ISP)	-	CZ.NIX	ITU	-	ISPO	Statistical Business Register	-	-	MPTT	-
Internet hosts per 1000 inhabitants	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC
Internet users penetration	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC
Household penetration of Internet access	IBM, KBN	IBM, KBN	IBM, KBN	TÁRKI	eEurope + 2003	SL (isq)	IBM, KBN	-	MDPT SR	IBM, KBN
Percentage of population who regularly use the internet	eEurope + 2003	eEurope + 2003	eEurope + 2003	eEurope + 2003	eEurope + 2003	IT usage in households	-	eEurope + 2003	eEurope + 2003	eEurope + 2003
Internet access outside the home	Vitosha research	CSÚ	Emor Ltd.	-	-	-	-	-	SU SR	RIS
Internet access costs	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC	IBM, PwC
Secure Web servers for electronic commerce per 1 million inhabitants	MTC, BAIT	OECD	ITP	-	-	-	-	-	-	RIS
<b>Mobile</b>										
Mobile penetration	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC	PwC
Mobile penetration: Share of pre-paid subscribers	PwC	PwC	-	PwC	-	PwC	PwC	PwC	PwC	PwC

<b>Name of indicator</b>	<b>BG</b>	<b>CZ</b>	<b>EE</b>	<b>HU</b>	<b>LV</b>	<b>LT</b>	<b>PL</b>	<b>RO</b>	<b>SK</b>	<b>SI</b>
Number of licences for provision of digital mobile services	IBM, KBN	IBM, KBN	IBM, KBN	IBM, KBN	IBM, KBN	IBM, KBN	IBM, KBN	IBM, KBN	IBM, KBN	IBM, KBN
Interconnection charges between fixed and mobile networks	PwC	PwC; Convergence	PwC	PwC	-	PwC	PwC	-	Slov. Telecom -	PwC

### 1.3.2 Available indicators per country

#### Bulgaria

No.	Name of indicator	Coverage	Main Source
<b>Basic Infrastructure</b>			
TA10	Main lines per 100 inhabitants	BG	MTC
TA16	Price of calls between fixed and mobile networks	BG	MTC
TA18	Costs for Internet access by DSL	BG	MTC
TA25	Number of Telecoms License holders	BG	MTC
<b>A Broadband</b>			
TA1	Cable TV subscribers	BG	MTC
TA2	Digital main lines	BG	MTC
TA34	Revenue from leased lines	BG	MTC
TA37	Business Internet Access Methods and package used	BG	SOE
<b>B Internet</b>			
TA5	Internet applications used in past 3 months	BG	Vitosha research
TA6	Internet access speeds too slow	BG	Vitosha research
TA7	Internet access affordability-high speed connection	BG	Vitosha research
TA8	Internet access outside the home	BG	Vitosha research
TA9	Internet hosts	BG	Vitosha research, BAIT
TA17	International Internet bandwidth by country	BG	
TA21	Households with home access to the Internet	BG	Vitosha research
TA33	Secure Web servers for electronic commerce per 1 million inhabitants	BG	MTC, BAIT
<b>C Mobile</b>			
TA3	Mobile subscriptions	BG	MTC
TA13	Interconnection charges between fixed and mobile networks in OECD countries	BG	PwC
TA24	The number of mobile phone subscribers in business and in personal communication	BG	NSI

#### Czech Republic

No.	Name of indicator	Coverage	Main Source
<b>Basic Infrastructure</b>			
TA10	Main lines per 100 inhabitants	CZ	CSÚ
TA25	Number of Telecoms License holders	OECD	OECD, CTÚ
<b>A Broadband</b>			
TA1	Cable TV subscribers	CZ	CSÚ
TA2	Digital main lines	CZ	CSÚ
<b>B Internet</b>			
	Number of Internet service providers (ISP)	CZ	CZ.NIX
TA8	Internet access outside the home	CZ	CSÚ
TA9	Internet hosts	CZ	CTÚ, MICR
TA9	Internet hosts per 1000 inhabitants	OECD	OECD
TA11	Technologies that respondents have/use at home	CZ	CSÚ

No.	Name of indicator	Coverage	Main Source
TA21	Households with home access to the Internet	CZ	CSÚ
TA22	Internet connection by Industry	CZ	CSÚ
TA33	Secure Web servers for electronic commerce per 1 million inhabitants	OECD	OECD
NEWTA 1	Divide Index	OECD	OECD
-	Internet access outside the home	CZ	CSU
<b>C Mobile</b>			
TA3	Mobile subscriptions	CZ	CSÚ
TA13	Interconnection charges between fixed and mobile networks in OECD countries	OECD	OECD, Convergence
TA14	Number of mobile operator equivalents in OECD countries	OECD	OECD, CSÚ

### Estonia

No.	Name of indicator	Coverage	Main Source
<b>Basic Infrastructure</b>			
TA10	Main lines per 100 inhabitants	EE	SOE
TA25	Number of Telecoms License holders	EE	NCB
TA27	Interconnection rate for a local port	EE	NCB
<b>A Broadband</b>			
TA1	Cable TV subscribers	EE	SOE
TA2	Digital main lines	NAS	PwC, SOE
TA18	Costs for Internet access by DSL	EE	NCB
TA30	Internet access by Cable	EE	NCB
TA31	Downstream bandwidth for residential and business broadband services	EE	NCB
TA34	Revenue from leased lines	NAS	PwC
TA37	Business Internet Access Methods and package used	EE	Eurostat; SOE
<b>B Internet</b>			
TA4	Interested in online services/ready to pay subscription	EE	Emor Ltd; EIC
TA5	Internet applications used in past 3 months	EE	Emor Ltd; EIC
TA6	Internet access speeds too slow	EE	NCB
TA7	Internet access affordability-high speed connection	EE	EIC
TA8	Internet access outside the home	EE	Emor Ltd; EIC
TA9	Internet hosts	EE	EIC; (RIPE NCC)
TA11	Technologies that respondents have/use at home	EE	SOE
TA12	Technologies that non-users intend to purchase in next 6 mths	EE	Emor Ltd; EIC
TA17	International Internet bandwidth by country	EE	NCB
TA19	Costs for Internet access basket for 20 hours at peak times using discounted PSTN rates	EE	PwC
TA21	Households with home access to the Internet	EE	SOE
TA22	Internet connection by Industry	EE	Emor Ltd., SOE
TA28	Diversity of Internet access offers in UK, Denmark, Germany, The Netherlands, Italy, Spain and Belgium	EE	NCB
TA29	World Wide Web links between TLDs and gTLDs	EE	NCB (RIPE NCC)
TA32	Reasons for not using the Internet	EE	Emor Ltd., PRAXIS

No.	Name of indicator	Coverage	Main Source
TA33	Secure Web servers for electronic commerce per 1 million inhabitants	EE	ITP; EIC
<b>C Mobile</b>			
TA3	Mobile subscriptions	EE	SOE
TA13	Interconnection charges between fixed and mobile networks in OECD countries	NAS	PwC
TA14	Number of mobile operator equivalents in Estonia	EE	NCB
TA16	Price of calls between fixed and mobile networks	EE	NCB
TA24	The number of mobile phone subscribers in business and in personal communication	EE	SOE
TA26	Number of active pre-paid cards	NAS	PwC
TA35	Survey of European Roaming Prices	EE	NCB
TA36	Business Satisfaction with Mobile Telephony	NAS	PwC

### Hungary

No.	Name of indicator	Coverage	Main Source
<b>Basic Infrastructure</b>			
3.	Number of Personal Computers (PC)	World	ITU
7.	Information Technology (IT) expenditures	EU, NAS	EITO
<b>A Broadband</b>			
<b>B Internet</b>			
1.	ICT Connectedness Index of household	HU	TÁRKI Household Panel Survey
2.	ICT Usage Index of Household	HU	TÁRKI Household Panel Survey
4.	Number of Internet service providers (ISP)	World	ITU
5.	Number of Internet hosts	World	ITU
6.	Number of Internet user persons	World	ITU
<b>C Mobile</b>			
8.	Mobile phone subscriptions	World	ITU

### Latvia

No.	Name of indicator	Coverage	Main Source
<b>Basic Infrastructure</b>			
A2-1	Fixed lines per 100 inhabitants	NAS	ITU, eEurope+, Data of Informatics Department at Ministry of Transport
A2-1.1	Fixed lines per 100 inhabitants in urban/rural locality	NAS	SYL2, Central statistical bureau
A2-1.3	Fixed private subscriber lines per 100 inhabitants in urban/rural locality	LV	SYL2, Central statistical bureau
A3-1	Number of personal computers	NAS	ITU, ISPO eEurope+
A3-1.1	Number of personal computers in business/households	NAS	ITU, ISPO eE+
A4-1	Percentage of households that have fixed telephone service	NAS	eEurope+



No.	Name of indicator	Coverage	Main Source
A5-1	Computerised enterprises	LV	SYL2, Central statistical bureau
A7-1	Information technology expenditure	NAS	EITO
A7-2	Telecommunication expenditure	NAS	EITO
<b>A Broadband</b>			
A2-1.2	Fixed digital lines per 100 inhabitants	LV	IDMT; SYL2, Central statistical bureau
A6-1	Number of cable TV stations	LV	SYL2, Central statistical bureau
A6-2	Number of cable TV customers	LV	SYL2, Central statistical bureau
A6-3	Expenditure for cable TV business	LV	SYL2, Central statistical bureau
A6-4	Revenue from cable TV business	LV	SYL2, Central statistical bureau
A5-3	Type of Internet connection in enterprises	LV	SYL2, Central statistical bureau
<b>B Internet</b>			
A3-2	Number of Internet hosts	NAS	RIPE NCC, eEurope+
A3-3	Internet users	NAS	ITU, eEurope+
A3-4	Percentage of population regularly using Internet	NAS	eEurope+
A3-5	Internet access costs	NAS	eEurope+
A5-2	Enterprises with access to the Internet	LV	SYL2, Central statistical bureau
A5-4	Number of computers with access to the internet used by enterprises	LV	SYL2, Central statistical bureau
A5-5	Enterprises with a home page on the Internet	LV	SYL2, Central statistical bureau
A5-6	Number of employees that at their work place regularly use a computer with internet connection	LV	SYL2, Central statistical bureau
<b>C Mobile</b>			
A1-1	Mobiles phone subscription	NAS	ITU, eEurope+

### Lithuania

No.	Name of indicator	Coverage	Main Source
<b>Basic Infrastructure</b>			
A1-1.1	Number of PCs (in 1000)	LT (EITO definition)	Statistics Lithuania (SL)
A1-1.4	Prices in the network industries (telecommunications and energy)	LT	SL (si)
A1-1.5	Market structure in the network industries (telecommunications and energy)	LT	SL (si)
A1-1.6	Percentage of households that have fixed telephone services	LT	SL (E+)
A1-1.7	Fixed telephone lines per 100 population	LT	SL
A1-1.8	Speed of interconnection and services available between and within national research and education networks	LT	Min. of Education (E+)
A1-3.1	Number of PCs in private households	LT	SL (isq)
A1-3.2	Percentage of private households having a PC	LT	SL (isq)

No.	Name of indicator	Coverage	Main Source
A1-3.3	Percentage of individuals using a PC at home for work purposes	LT	SL (isq)
A5-2.5	ICT expenditure	LT	SL (si)
A1-4.1	Percentage of enterprises (with 10 or more employees) using a PC	LT	SL (isq)
A1-4.2*	Percentage of SMEs (10-249 employees) using a PC	LT	SL (isq)
A1-4.3	Percentage of persons employed working with a PC	LT	SL (isq)
A1-4.10	Total investment expenditure for IT equipment and services	LT	SL (isq)
A1-4.11	Total investment expenditure for IT hardware	LT	SL (isq)
A1-4.12	Total investment expenditure for IT services	LT	SL (isq)
A1-4.13	Total current expenditure for IT equipment and services	LT	SL (isq)
A1-4.14	Total current expenditure for IT hardware	LT	SL (isq)
A1-4.15	Total current expenditure for IT services	LT	SL (isq)
A1-4.16	Total investment expenditure for telecommunications	LT	SL (isq)
A1-4.17	Total current investment expenditure for telecommunications	LT	SL (isq)
<b>A Broadband</b>			
<b>B Internet</b>			
A1-1.9	Number of Public internet points per 1000 inhabitants	LT	ISDC (E+)
A1-2.1	Number of enterprises providing Internet-related services	LT	SL (isq) - Business registers
A1-2.2	Number of persons employed in Internet-related services sector	LT	SL (isq) - quarterly survey of enterprises providing internet related services
A1-2.3	Turnover of Internet-related services sector	LT	SL (isq) - quarterly survey of enterprises providing internet related services
A1-3.4	Number of Internet connections in private households	LT	SL (isq/si) – IT usage in households survey
A1-3.5	Number of Internet connections in private households a) via a PC	LT	SL (isq) – IT usage in households survey
A1-3.6	Number of Internet connections in private households b) via a mobile phone	LT	SL (isq) – IT usage in households survey
A1-3.7	Number of Internet connections in private households c) via other equipment	LT	SL (isq) – IT usage in households survey
A1-3.8	Percentage of private households with an Internet connection	LT	SL (isq) – IT usage in households survey
A1-3.9*	Percentage of private households with a broadband Internet connection	LT	SL (isq) – IT usage in households survey
A1-3.10	Number of individuals using the Internet	LT	SL (isq) – IT usage in households survey
A1-3.11	Number of individuals using the Internet at home	LT	SL (isq) – IT usage in households

No.	Name of indicator	Coverage	Main Source
			survey
A1-3.12	Number of individuals using the Internet to order/purchase goods/services	LT	SL (isq) – IT usage in households survey
A1-3.13	Total amount spent on purchases on the Internet by private persons	LT	SL (isq) – IT usage in households survey
A1-4.4	Percentage of enterprises (10 or more employees) with an Internet connection	LT	SL (isq/si)
A1-4.5	Percentage of SMEs (10-249 employees) with an Internet connection	LT	SL (isq)
A1-4.6	Percentage of persons employed working with a PC with an Internet connection	LT	SL (isq)
A1-4.7	Percentage of enterprises having their own website	LT	SL (isq)
A1-4.8	Percentage of enterprises making sales through the Internet	LT	SL (isq)
A1-4.9	Percentage of enterprises making purchases through the Internet	LT	SL (isq)
<b>C Mobile</b>			
A1-1.2	Number of subscriptions to mobile Internet services	LT	SL (isq)
A1-1.3	Mobile telephones per 100 population	LT	SL

### Poland

No.	Name of indicator	Coverage	Main Source
<b>Basic Infrastructure</b>			
B1-2	Wire telephone subscribers	PL	GUS – Central Statistical Office
B1-3	Fixed lines per 100 inhabitants	BG,CY,CZ,EE,HU, LV,LT,MT,PL,RO, SK,SI,TR	IBM, KBN – State Committee for Scientific Research
B1-4	Fixed lines per 100 households	BG,CY,CZ,EE,HU, LV,LT,MT,PL,RO, SK,SI,TR	IBM, KBN - State Committee for Scientific Research
B1-6	Monthly line rental charge of fixed incumbent operator for residential users	BG,CZ,EE,HU,LV, LT,MT,PL,RO,SK, SI,TR	IBM, KBN - State Committee for Scientific Research
B2-2	Enterprises possessing computers	PL	GUS - Central Statistical Office
B2-3	Enterprises processing local area networks (LAN)	PL	GUS - Central Statistical Office
B2-4	Monthly line rental charge of fixed incumbent operator for business users	BG,CZ,EE,HU,LV, LT,MT,PL,RO,SK, SI,TR	IBM, KBN - State Committee for Scientific Research
<b>A Broadband</b>			
B1-5	Percentage of households passed by CaTV operators	BG,CZ,EE,HU,LV, LT,MT,PL,RO,SK, SI,TR	IBM, KBN - State Committee for Scientific Research
B1-10	Price for national leased lines	BG,CY,CZ,EE,HU, LV,LT,MT,PL,RO,	IBM, KBN - State Committee for

No.	Name of indicator	Coverage	Main Source
		SK,SI,TR	Scientific Re- search
B1-11	Price for international leased lines	BG,CY,CZ,EE,HU ,LV,LT,MT,PL,RO, SK,SI,TR	IBM, KBN - State Committee for Scientific Re- search
<b>B Internet</b>			
B1-7	Internet hosts per 1000 inhabitants	BG,CY,CZ,EE,HU ,LV,LT,MT,PL,RO, SK,SI,TR	IBM, KBN - State Committee for Scientific Re- search
B1-8	Internet users penetration	BG,CY,CZ,EE,HU ,LV,LT,MT,PL,RO, SK,SI,TR	IBM, KBN - State Committee for Scientific Re- search
B1-9	Household penetration of Internet access	BG,CY,CZ,EE,PL, SK,SI	IBM, KBN - State Committee for Scientific Re- search
B1-12	Internet access costs	BG,CY,CZ,EE,HU ,LV,LT,MT,PL,RO, SK,SI,TR	IBM, KBN - State Committee for Scientific Re- search
B2-1	Enterprises using Internet services	PL	GUS – Central Statistical Office
<b>C Mobile</b>			
B1-1	Cellular telephone subscribers	PL	GUS – Central Statistical Office
B2-5	Number of licences for provision of digital mobile services	BG,CZ,EE,HU,LV, LT,MT,PL,RO,SK, SI,TR	IBM, KBN - State Committee for Scientific Re- search

### Romania

No.	Name of indicator	Coverage	Main Source
<b>Basic Infrastructure</b>			
B1-2	Wire telephone subscribers	RO	ROMTELECOM
B1-3	Fixed lines per 100 inhabitants	BG,CY,CZ,EE,HU ,LV,LT,MT,PL,RO, SK,SI,TR	IBM, ROMTELE- COM
B1-4	Fixed lines per 100 households	BG,CY,CZ,EE,HU ,LV,LT,MT,PL,RO, SK,SI,TR	IBM, ROMTELE- COM
<b>A Broadband</b>			
B1-5	Percentage of households passed by CaTV operators	BG,CZ,EE,HU,LV, LT,MT,PL,RO,SK, SI,TR	IBM, RO Cable Communications Association - CCA
B1-10	Price for national leased lines	BG,CY,CZ,EE,HU ,LV,LT,MT,PL,RO, SK,SI,TR	IBM, ROMTELE- COM
B1-11	Price for international leased lines	BG,CY,CZ,EE,HU ,LV,LT,MT,PL,RO, SK,SI,TR	IBM, ROMTELE- COM
<b>B Internet</b>			

No.	Name of indicator	Coverage	Main Source
B1-7	Internet hosts per 1000 inhabitants	BG,CY,CZ,EE,HU, LV,LT,MT,PL,RO, SK,SI,TR	IBM, Ministry of Information and Communication Technology - MICT
B1-8	Internet users penetration	BG,CY,CZ,EE,HU, LV,LT,MT,PL,RO, SK,SI,TR	IBM, Ministry of Information and Communication Technology - MICT
B1-12	Internet access costs	BG,CY,CZ,EE,HU, LV,LT,MT,PL,RO, SK,SI,TR	IBM, Ministry of Information and Communication Technology - MICT
<b>C Mobile</b>			
B1-1	Cellular telephone subscribers	RO	Ministry of Information and Communication Technology - MICT
B2-5	Number of licences for provision of digital mobile services	BG,CZ,EE,HU, LV, LT,MT,PL,RO,SK, SI,TR	IBM, Ministry of Information and Communication Technology - MICT

### Slovakia

No.	Name of indicator	Countries	Main Source
<b>Basic Infrastructure</b>			
A1	Percentage of the population who regularly use the Internet	EU15, NAS	Eurostat
A2	Percentage of households with Internet access at home	EU15, NAS	Eurostat
A1-1.1	Number of PCs (in 1000)	SK	SO SR
A1-1.3	Mobile telephone per 100 population	SK	SO SR
A1-1.6	Percentage of households that have fixed telephone	SK	SO SR
A1-1.7	Fixed telephone lines per 100 population	SK	SO SR
A1-4.1	Percentage of enterprises using PC	SK	SO SR
A1-4.3	Percentage of persons working with PC	SK	SO SR
A1-4.10	Total investment in IT	SK	SO SR
A1-3.1	Number of PCs in private households	SK	SO SR
A1-3.2	Percentage of private households having a PC	SK	SO SR
A1-3.3	Percentage of individuals using a PC at home for work purposes	SK	SO SR
<b>A Broadband</b>			
A3-1.2.1	Leased line home Internet subscribers	SK	MDPT SR
A3-1.2.2	Leased line business Internet subscribers	SK	MDPT SR
A3-3.1	Cable modem Internet subscribers	SK	MDPT SR
A3-3.2	Fixed wireless (spread spectrum ) Internet subscribers	SK	MDPT SR
A3-3.3	DSL Internet subscribers	SK	MDPT SR
<b>B Internet</b>			

No.	Name of indicator	Countries	Main Source
A1-4.4	Percentage of enterprises with Internet connection	SK	SO SR
A1-4.7	Percentage of enterprises having their own website	SK	SO SR
A1-4.8	Percentage of enterprises making sales through the Internet	SK	SO SR
A1-4.9	Percentage of enterprises making purchases through the internet	SK	SO SR
A1-3.4	Number of Internet connections in private households	SK	SO SR
A1-3.8	Percentage of private households with an Internet connection	SK	SO SR
A1-3.11	Number of individuals using the Internet at home	SK	SO SR
A3-1.1	Analogue Dial-up home Internet subscribers	SK	MDPT SR
A3-1.2	Analogue dial-up business Internet subscribers	SK	MDPT SR
A3-1.3	ISDN dial-up home Internet subscribers	SK	MDPT SR
A3-1.4	ISDN dial-up business Internet subscribers	SK	MDPT SR
A3-3.4	Other Internet subscribers	SK	MDPT SR
A3-4.1	Internet dial-up calls	SK	MDPT SR
A3-4.2	Dial-up Internet traffic (minutes)	SK	MDPT SR
A3-4.3	Voice telephony Internet (VoIP) subscribers	SK	MDPT SR
A4-3.1	PC (laptop) connected to Internet	SK	SU SR
A4-3.2	Way of PC (laptop) connection to Internet	SK	SU SR
A4-3.3	Use of Internet Access	SK	SU SR
A4-3.4	Frequency of use of Internet Access	SK	SU SR
A4-3.5	Purpose of Internet use	SK	SU SR
A4-3.6	Barriers of not using Internet	SK	SU SR
A4-3.7	Use of Internet outside the household	SK	SU SR
A4-4.1	PC with e-mail	SK	SU SR
A488-1.1	PCs possessed by undertakings with e-mail	SK	Statistical Office SR
A488-1.2	PCs possessed by undertakings with Intranet access	SK	Statistical Office SR
A488-1.3	PCs possessed by undertakings with Internet access	SK	Statistical Office SR
-	PCs with e-mail access owned by enterprises	SK (Eurostat methodology)	Statistical Office SR
-	PCs with an Intranet connection owned by enterprises	SK (Eurostat methodology)	Statistical Office SR
-	PCs with an Internet connection (in the breakdown: telephone modem, ISDN, ADSL, other)	SK (Eurostat methodology)	Statistical Office SR
-	Average number of employees working with a PC with an Internet connection, in natural persons	SK (Eurostat methodology)	Statistical Office SR
<b>C M o b i l e</b>			
A4-1.2	Mobile telephone in the household	SK	SU SR
Z3-1.1	Digital cellular subscribers	SK	MDPT SR
Z3-1.2	Cellular mobile subscribers - prepaid card	SK	MDPT SR
Z3-1.3	Coverage of population (%)	SK	MDPT SR

## Slovenia

No.	Name of indicator	Coverage	Main Source
<b>B a s i c I n f r a s t r u c t u r e</b>			
TA8	Internet access outside the home	SI	RIS
TA9	Internet hosts	SI	RIS
TA10	Main lines per 100 inhabitants	SI	Telekom
<b>A B r o a d b a n d</b>			
TA1	Cable TV subscribers	SI	RIS
TA2	Digital main lines	SI	Telekom
TA7	Internet access affordability-high speed connection	SI	RIS
TA37	Business Internet Access Methods	SI	RIS
<b>B I n t e r n e t</b>			
TA4	Interested in online services/ready to pay subscription	SI	RIS
TA5	Internet applications used in past 3 months	SI	RIS
TA6	Internet access speeds too slow	SI	RIS
TA11	Technologies that respondents have/use at home	SI	RIS
TA12	Technologies that non-users intend to purchase in next 6 mths	SI	RIS
TA17	International Internet bandwidth by country	SI	ARNES
TA21	Households with home access to the Internet	SI	RIS, SJM
TA25	Number of Telecoms License holders	SI	RIS
TA32	Reasons for not using the Internet	SI	RIS
TA33	Secure Web servers for electronic commerce per 1 million inhabitants	SI	RIS
TA38	Business Satisfaction with Internet service	SI	RIS
<b>C M o b i l e</b>			
TA3	Mobile subscriptions	SI	RIS
TA13	Interconnection charges between fixed and mobile networks in OECD countries	SI	MIS
TA24	The number of mobile phone subscribers	SI	RIS
TA26	Number of active pre-paid cards	SI	RIS

## 2 Education

### 2.1 Key Policy Papers on Education in the Information Society in the NAS

Title of document	Author	Year	Type of document
<b>Key Supranational policy documents relevant to Education and learning</b>			
eEurope+ 2003. A Cooperative Effort to Implement the Information Society in Europe	European Commission and Candidate Countries	June 2001	Action Plan
eEurope+ 2003. Progress Report	European Commission and Candidate Countries	June 2002	Report
Ministerial Conclusions	European Ministerial Conference, Ljubljana	June 2002	Statement
The role of libraries in the development of information society	The Baltic Assembly	2002	Resolution
<b>Key documents relevant to education from Bulgaria</b>			
Strategy for Information society development	Ministry of Economy	1999	Action plan
Action Plan of the Government "People are the wealth of Bulgaria"	Government	Oct 2001	Action Plan
Science, Technology and Innovation in Republic of Bulgaria. Strategy and implementation	Ministry of Economy and Ministry of Education and Science	Oct 2002	Action Plan
Initiative for technological support to schools	Net Is Sat – Internet provider in BG	2002	Report on initiative of private firms
Strategy for training the state administration	Government	2002	Government strategy
<b>Key documents relevant to education from the Czech Republic</b>			
National Programme of Education Development in CR (The White Book)	Ministry of Education, Youth and Sports	2001	Action Plan
Strategy of the State Information Politics in Education	Ministry of Education, Youth and Sports	2001	Strategy
<b>Key documents relevant to education from Estonia</b>			
Information Systems in Education – ISE	Ministry of Education	1997	Action Plan
National program for computerization of Estonian educational system "Tiger Leap"	Ministry of Education	1997	Action Plan
Action Plan for Developing Estonian Vocational Education and Training System in 2001-2004	Ministry of Education	2001	Action Plan
Education Strategy "Learning Estonia" - draft	Ministry of Education	2001	Action Plan
Estonian Communication Policy for Education and Science	Ministry of Education	2001	Action Plan
Knowledge-Based Estonia. Estonian Research and Development Strategy 2001-2006	Ministry of Economic Affairs and Communication	2001	Action Plan
Report on the Vocational Education and Training System. Estonia 2000	Estonian National Observatory	2001	Report
The Tiger Leap Plus Program. ICT in Estonian Schools in 2001-2005	Ministry of Education	2001	Action Plan
Estonian National Development Plan – Single Programming Document 2003-2006	Ministry of Finance	2002	Action Plan
Estonian National ICT Program for Higher Education The Tiger University	Estonian Information Technology Foundation (EITF)	2002	Action Plan



Title of document	Author	Year	Type of document
Foundation Vocational Education and Training Reform in Estonia. Development Plan for 2002-2006	Foundation Vocational Education and Training Reform in Estonia, PW Partners	2002	Action Plan
National Lifelong-Learning Strategy - draft	Ministry of Education	2002	Action Plan
Report Estonian's Digital Divide and How to Bridge It	EMOR, PRAXIS	2002	Report
<b>Key documents relevant to education from Hungary</b>			
National Core Curriculum	Ministry of Culture and Education	1995	Other
Curriculum Guide	Ministry of Culture and Education	2001	Other
National Core Curriculum Revision Proposal	Ministry of Culture and Education	2002	Other
<b>Key documents relevant to education from Latvia</b>			
National program "Informatics" 1999—2005	Ministry of Transport of the Republic of Latvia	1998	Action Plan
Latvian Education Informatization System (LIIS)	Project group of LIIS management	1998	Documentation
Conceptual guidelines of socio-economic program "eLatvia"	Ministry of Economics of the Republic of Latvia	2001	Action Plan
Towards a knowledge-based economy, Country readiness assessment report, Latvia	United Nations Economic Commission for Europe, Coordinating Unit for Operational Activities, 2002	2002	Evaluation
<b>Key documents relevant to education from Lithuania</b>			
Information Technologies in Lithuanian Education	The Ministry of Science and Education	2001	Strategy
Lithuania's White Book on Science and Technology	Department of Science and Higher Education of the Ministry of Science and Education	2001	White book
Strategic Plan of Lithuanian Information Society Development	Government	2001	Documentation
Conceptual framework of the national information society development of Lithuania	Government	2001	Resolution
Long-term economic development strategy of Lithuania until 2015	Ministry of Economy	2001	Strategy
Development Strategy for Local Employment Initiatives Implementation 2002-2004	The Ministry of Social Security and Labour	2002	Action Plan
State Long-term Development Strategy	Ministry of Economy	2002	Strategy
<b>Key documents relevant to education from Poland</b>			
White Book	Office of the Council of Ministers, State Committee for Scientific Research	1995	White book
Strategy of IT Development in Poland (1)	Polish IT Society	April 1995	Report
Strategy of IT Development in Poland (2)	Polish IT Society	June 1999	Report
Poland 2025 Long-term Strategy of Lasting and Sustainable Development	State Committee for Scientific Research	July 2000	Strategy
Act of RP's government concerned building bases of information society in Poland	Polish Government	July 2000	Law
Pioneer: Polish Optical Internet – Advanced Applications, Services and Technologies for Information Society	State Committee for Scientific Research	Sep 2000	Strategy

Title of document	Author	Year	Type of document
Aims and Directions of the Information Society development in Poland	State Committee for Scientific Research	Nov 2000	Strategy
National Program of preparation for membership in EU	State Committee for Scientific Research	June 2001	National Program
Agreement between Ministry of National Education and Sport and TP S.A	Ministry of National Education and Sport and TP S.A	June 2001	Law
ePolska- Action plan: 2001-2006	Ministry of Economy	Sep 2001	Action Plan
Agreement between Ministry of National Education and Sport and Microsoft Academic Select	Ministry of National Education and sport and Microsoft Academic Select	Nov 2001	Law
Reports on the action plan realisations	State Committee for Scientific Research	2001, 2002	Report
ePolska-2006: Active plan for IS development in Poland	Ministry of Infrastructure	2002	Action Plan
Internet laboratory 2002 in every school	Ministry of National Education and Sport	2002	Program
Internet laboratory 2002 in every lower secondary school	Ministry of National Education and Sport	2002	Program
Programme of proinvestment activities in ICT in Poland	National Agency for Foreign Investments	Sep 2002	Program – action plan
IT Education 2002	Ministry of National Education and Sport	Oct 2002	Report
<b>Key documents relevant to education from Romania</b>			
Strategy for initial and continuing formation of pre-university teachers and managers 2001-2004	Romanian Ministry of Education and Research	2001	Action Plan
White paper of PSD governance	Romanian Government	2001	Report
National Active Measures Program for Employment - 2001-2004	Employment Agency	2001	Action Plan
Strategy on pre-university education 2001-2004; Prospective planning to 2010 (updated in 2002)	Romanian Ministry of Education and Research	2002	Action Plan
<b>Key documents relevant to education from Slovakia</b>			
SANET Project – network for schools and universities	Non-profit organization for the Ministry of Education	From 1990	Project Initiative
INFOVEK Project – computers in schools	Ministry of Education	From 1999	Project Initiative
Policy of informatization of society in the Slovak Republic	Ministry of Education	2001	Report
<b>Key documents relevant to education from Slovenia</b>			
Higher Education Act (ZVŠ)	Ministry of Education, Science and Sport	1993	Act
Elementary School Act (ZOsn)	Ministry of Education, Science and Sport	1996	Act
Gimnazije Act (ZGim)	Ministry of Education, Science and Sport	1996	Act
Vocational and Technical Education Act (ZPSI)	Ministry of Education, Science and Sport	1996	Act
Organisation and Financing of Education Act (ZOFVI)	Ministry of Education, Science and Sport	1996	Act
Pre-schools Institution Act (ZVrt)	Ministry of Education, Science and Sport	1996	Act

<b>Title of document</b>	<b>Author</b>	<b>Year</b>	<b>Type of document</b>
The Adult Education Act (ZIO)	Ministry of Education, Science and Sport	1996	Act
Placement of Children with Special Needs Act	Ministry of Education, Science and Sport	2000	Act
eEurope+ implementation activities in Slovenia	Ministry of Information Society	2001	Documentation
The Strategy of Economic Development in RS 2001-2006 (SGRS 2001-2006)	Government (UMAR)	2001	Strategy
National Development Plan (NRP RS 2001-2006)	Government	2001	Action Plan
The Strategy of Republic of Slovenia in Information Society	Ministry of Information Society	2002	Strategy

## 2.2 NAS Data Sources on Education in the Information Society

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
<b>Key supranational data sources on Education in the Information Society</b>					
Basic Indicators on the Incorporation of ICT into European Education Systems	Eurydice	Data collection from official government sources	Eurydice	EU, EFTA/EEA, pre-associated countries	2000/01
Continuing Vocational Training Survey (CVTS)	EU Commission 1997voc; Egner 2001	DMS (enterprises > 9 workforce); e.g. 3,200 companies in Germany	Eurostat	EU + BG,CZ,EE,HU,LT,LV,PL,RO,SI	1994, 2000
eEurope+2003, progress report, June 2002	Joint High Level Committee	An overview of action undertaken by the candidate countries since the adoption of the eEurope+ Action Plan, listing indicators measuring Information society	Joint High Level Committee	NAS including LV	2001
European Computer Driving License (ECDL)	Not published officially	Statistics of certified persons	www.ecdl.com	CZ,EE,HU,LT,LV,PL,RO,SI,SK	continuous
European Survey of Information Society (ESIS II) – Extension to Central and Eastern European Countries and Mediterranean Area	ESIS Knowledge Base	The inventory was build with information collected via a standardised questionnaire which was translated in all local languages. The questionnaire is available on the website to be filled in by project promoters. <sup>7</sup>	ISPO	CEEC and Mediterranean countries	updated every three months
European System of Social Indicators (EUSI)	Berger-Schmitt 2001	presents harmonised data from various sources	ZUMA, EuReporting Project Consortium	EU15, CH, CZ, HU, N, PL, USA, JAP	various

<sup>7</sup> Topics: Telecommunications basic indicators, Regulatory developments, Alternative networks, IS Promotional activities, IS Key persons contacts and organisations, www sites indicators, statistical analysis of the ESIS II database, Estimation of Information Society projects

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
International Adult Literacy Survey	OECD 1995lit; 1997lit; 2000lit.	GPS (2000 to 8000 adults aged 16-65 per country)	OECD, Statistics Canada	1994: CD, D, IRL, NL, PL, S, CH (part), USA. 1996: AUS, B, IRL, UK, Z. 1998: CZ, DK, FIN, HU, I, N, SI, CH (rest).	1994, 1996, 1998
Information society statistics	Statistics in focus, Theme 4-37/2001, 4-17/2002,	Information society statistics	Eurostat	NAS	1990, 1998, 1999, 2000, 2001
OECD Data Collection on Human Capital Investment	OECD 1998hci	various	OECD	OECD	latest published: 1998
OECD Data Collection on Science, Technology and Industry <sup>8</sup>	OECD 1999score	various	OECD	OECD	various, latest published: 1999
Structural Indicators	Various EC publications	Various sources	Eurostat	EU, NAS	Annually
UOE (Annual joint UNESCO-OECD-Eurostat data collection of statistics on students, teachers, graduates, expenditure)	Eurostat 2000key	administrative data collection	UNESCO-OECD-Eurostat	UN	Annually
<b>Key data sources on Education in the Information Society from Bulgaria</b>					
<b>Key data sources on Education in the Information Society from the Czech Republic</b>					
CESNET	Vysokorychlostní síť národního výzkumu a její nové aplikace, 2002 (Annual report; <a href="http://www.cesnet.cz/doc/2002/zprava">www.cesnet.cz/doc/2002/zprava</a> )	Informations on the national research and education network CESNET	CESNET	CZ	annually since 1996

<sup>8</sup> See also <http://www.oecd.org/subject/cstp/1999/stats.htm>.

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Survey in the framework of eEurope	Information from database (on demand)	Inquiry at state and private Universities	CSÚ – Czech statistical office	CZ	2002
UIV	Basic Indicators on the Incorporation of ICT into European Education Systems (Euridice <sup>9</sup> ); ICT@Europe.edu: Information and Communication Technology in European Education Systems (Euridice) <sup>10</sup>	Statistics and surveys on schools in CZ; indicators on official educational policy	UIV – The Institute for Information on Education	CZ	mostly early indicators
<b>Key data sources on Education in the Information Society from Estonia</b>					
Comparison of Estonian and European ICT sectors' state of affairs and developments	Information Technology in Public Administration of Estonia. Yearbook	Indicators of Internet usage and services, various sources	Estonian Informatics Centre, L. Leppik (author)	EE	2001
Computerization of Estonian Educational System	National Program "Tiger Leap" <a href="http://www.tiigrihype.ee">www.tiigrihype.ee</a>	General education	Ministry of Education	EE	1997
Data collection on ICT in Estonian schools	The Tiger Leap Foundation Yearbook <sup>11</sup>	Primary and secondary schools	The Tiger Leap Foundation	EE	1999, 2000
ICT in Estonian Schools in 2001-2005	The Tiger Leap Plus Program <a href="http://www.tiigrihype.ee">www.tiigrihype.ee</a>	Information about ICT in the general education	Ministry of Education	EE	2001
Study in the ICT in vocational education	Sectoral Study in the ICT in Estonia	About 200 enterprises in ICT sector and 11 vocational and higher educational institutions	Foundation Vocational Education and Training Reform in Estonia, PW Partners	EE	2002
Study on Information and Communication Technology in Estonian Schools in 2000	Tiger under Magnifying Glass	Random sample of schools (98 schools and 3177 pupils)	Tallinn Pedagogical University, The Tiger Leap Foundation	EE	2001
<b>Key data sources on Education in the Information Society from Hungary</b>					

<sup>9</sup> [www.eurydice.org/Documents/TicBI/en/FrameSet.htm](http://www.eurydice.org/Documents/TicBI/en/FrameSet.htm)

<sup>10</sup> [www.eurydice.org/Documents/survey4/en/FrameSet.htm](http://www.eurydice.org/Documents/survey4/en/FrameSet.htm)

<sup>11</sup> [www.tiigrihype.ee/eng/publikatsioonid/index.html](http://www.tiigrihype.ee/eng/publikatsioonid/index.html)

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Hungarian Educational System at the Crossroads	Székelyi, Mária (et al.) (1997) Válaszúton a magyar oktatási rendszer. Budapest, Új Mandátum Publishing House.	Sample: whole. Interviewees: 61.190 persons, secondary students before leaving secondary education. Topic: social background of transferring from secondary education into higher education (family background, gender, location, academic achievements)		HU	1998
National census		Composition of population according to level of education, age, gender and location	Central Statistical Office	HU	1960, 1970, 1980, 1990 and 2001
PC's in the Schools Survey	Tóth Éva (2001): PC-s in the schools. Research Papers No. 229. Hungarian Institute for Educational Research Tóth Éva (2001): The PC as the communication instrument of teachers. Új Pedagógiai Szemle No. 7-8.	Case studies, questionnaires. Sample: 265 schools (primary and secondary) representative according to type of school, type of settlement and region. Respondents: directors of school. Topic: PC infrastructure in the school. Teachers. Topic: The PC as the communication instrument of teachers. Pupils. Topic: PC use practice of pupils: internet and e-mail. Education of informatics – knowledge and demand of pupils	Hungarian Institute for Educational Research	HU	1999
Public opinion polls on education, 1990-1999.		Sample: national, representative according to type of settlement, gender, age, level of education. Interviewees: adults (1.000 persons). Topic: satisfaction with education; opinion about current items of educational policy.	National Institute for Public Education	HU	1990, 1995, 1997, 1999

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Questions of minority education, 1999.		Sample: representative according to the settlements with minority population in Hungary. Interviewees: 258 officers at local authorities, 359 Roma and other leaders of minority authority leaders, 281 school principles, 519 class teachers, 5308 students. Topic: opinions about the education of students belonging to national minorities or Romas.	National Institute for Public Education.	HU	1999
Social processes and educational system	Gazsó, Ferenc (1997); Társadalmi folyamatok és az oktatási rendszer [Social processes and educational system]. Századvég [The End of Century].	Sample: representative to the regular students of advantaged faculties in Hungary. Interviewees: 1.000 students in faculties of arts, technology, law and economics. Topic: social selection among students in higher education (according to parents' level of education, the social status of the family).	Millennium Foundation	HU	1996
Statistical Guide. Kindergartens – Primary Education – Secondary Education – Higher Education		Based on the institutes' compulsory supply of data. Vocational training had an individual volume before 1993, since then the volume on Secondary Education contains these data.	Central Statistical Office, Ministry of Education	HU	Annually
Statistical Yearbook of Hungary		Main statistics of students, teachers and educational institutes	Central Statistical Office	HU	Annually
Teacher survey, 1997		Sample: national, representative according to type of settlement and school. Interviewees: 2177 teachers. Topic: level of education; in-service training; school and teacher jobs; problems of school life and management; living conditions of teachers; image of the future.	National Institute for Public Education	HU	Academic year 1996/7



Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
<b>Key data sources on Education in the Information Society from Latvia</b>					
Data of Central statistical bureau	The statistical yearbook	Data on all topics characterising the development of country	Central statistical bureau	LV	Annually
Data of Central statistical bureau	National program of Statistical information	Response on e-Europe+ initiative, data collection is based on Eurostat module 491, survey questionnaires are used.	Central statistical bureau	LV	Annually
Department of higher education and science at Ministry of education and science ( <a href="http://www.izm.gov.lv">www.izm.gov.lv</a> )	Survey on activities of Latvia's higher education establishments in 2001	Contain indicators characterising the higher education	Department of higher education and science at Ministry of education and science	LV	2000, 2001
Project group of LIIS management	Latvian Education Informatization System (LIIS) ( <a href="http://www.liis.lv">www.liis.lv</a> )	European youth into the digital age	Project group of LIIS management	LV	1997-2002
United Nations Economic Commission for Europe, Coordinating Unit for Operational Activities, Riga, 2002	Towards a knowledge-based economy, Country readiness assessment report, Latvia	Towards a knowledge-based economy	United Nations Economic Commission for Europe, Coordinating Unit for Operational Activities, Riga, 2002	LV	2002
<b>Key data sources on Education in the Information Society from Lithuania</b>					
eEurope+ Progress Report	Information and informatics department to the Ministry of Interior, Statistics Lithuania 2001, 2002	An overview of action undertaken by the candidate countries since the adoption of the eEurope+ Action Plan, listing indicators measuring Information society	Information and informatics department to the Ministry of Interior, Statistics Lithuania	LT	Half-annually
Information society development in Lithuania	Statistics Lithuania 2002	Overview of ICT sector development in Lithuania – includes comparisons with EU and other candidate countries	Statistics Lithuania	LT	annually
<b>Key data sources on Education in the Information Society from Poland</b>					

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Education	Statistical Yearbook of the Republic of Poland	The education of pre-school children, education for children and youth (primary, lower secondary, general secondary as well as technical and vocational secondary education), post-secondary, tertiary (university level) as well as adult education (primary, lower secondary and secondary)	GUS	PL	annually
Household budgets	Household budgets; Statistical Yearbook of the Republic of Poland	0,3 % of all groups of households, with the exemption of those living in institutional households as well as households whose members are foreigners	GUS	PL	quarterly
IT Education 2002	IT Education 2002, Ministry of National Education and Sport	Schools equipment with computers, Internet access, Teachers preparation	Ministry of National Education and Sport, IT Department	PL	October 2002
Level of Public Electronic Services		Part of KBN <sup>12</sup> project „Gateway of Poland”, also comparison with EU countries	Cap Gemini Ernst & Young	PL, EU	March 2002
<b>Key data sources on Education in the Information Society from Romania</b>					
Romanian Ministry of Education and Employment Agency	Annual Reports	Youngsters, training courses	Romanian Ministry of Education and Employment Agency	RO	Annually since 2000
Romanian Ministry of Education and Research	Annual Reports	ICT in schools, Objectives, Number and quality of computers etc.	Romanian Ministry of Education and Research	RO	Annually since 2000
<b>Key data sources on Education in the Information Society from Slovakia</b>					
Census of population 2001	Census of population, houses and flats of Slovak Republic to 26 May 2001.	PC in households	Statistical Office of Slovak Republic (SU SR)	SK	Reports of Statistical Office of Slovak Republik. Every 10 years.

<sup>12</sup> Komitet Badan Naukowych – State Committee for Scientific Research

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
IKT (MŠ SR) 1 – 01 Annual Report on IT in schools	Selected Indicators on Basic Data on Schools and School Establishments in the Slovak Republic	Data from modules: „Number of PCs in school”, “Teaching staff and pupils/students”, and “Additional data”	Ministry of Education of the SR	SK	Annually, data will be available from 2004
Microcensus of households 2003	Microcensus of households 2003	Sample survey	Statistical Office of Slovak Republic	SK	annually
<b>Key data sources on Education in the Information Society from Slovenia</b>					
Educational institutions 2000/01	Vehovar et al.	Population	FDV (RIS)	SI	1998-2000
ICT Indicators for Slovenia and EU	Vehovar et al.	GPS	MIS	SI, EU	2001
Key data on education in Europe	Eurydice		MESS	EU, EFTA/EEA, pre-associated countries	1994-2001
SJM (Sloveniana Public Opinion)	Toš et al.	Persons >17	FDV (CJMMK)	SI	annually
Statistical Yearbook of the Republic of Slovenia 2001	SORS		SORS	SI	2002

## 2.3 NAS Indicators on Education in the Information Society

### 2.3.1 Overview of selected indicators available for various countries<sup>13</sup>

Name of indicator	BG	CZ	EE	HU	LV	LT	PL	RO	SK	SI
<b>Policy and strategy</b>										
Countries with an official policy on the use of ICT	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice
Schedule for implementing national ICT education projects	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice
Responsibility for the purchase and maintenance of hardware	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice
Objectives in national ICT projects	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice
Inclusion of ICT in the (national) curriculum	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice
Approaches of ICT defined in the curriculum	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice
Objectives defined in the curriculum for the teaching or the use of ICT	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice
Countries with an official policy on the use of ICT	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice	Eurydice
<b>Infrastructure, use and access</b>										
Number of computers per 100 students in primary education	eEurope+ 2003	eEurope+ 2003 - UIV	eEurope+ 2003	eEurope+ 2003	eEurope+ 2003	eEurope+ 2003	eEurope+ 2003	eEurope+ 2003	eEurope+ 2003	eEurope+ 2003
Number of computers per 100 students in secondary education	eEurope+ 2003	eEurope+ 2003 - UIV	eEurope+ 2003	eEurope+ 2003	eEurope+ 2003	eEurope+ 2003	eEurope+ 2003	eEurope+ 2003	eEurope+ 2003	eEurope+ 2003

<sup>13</sup> The table contains indicators for which indicators and data are available at the time of writing (national/international sources are mentioned). This does not mean, however, that direct comparability between countries is given in each case.

Name of indicator	BG	CZ	EE	HU	LV	LT	PL	RO	SK	SI
Number of computers per 100 students in tertiary education	eEu- rope+ 2003	Europe+ 2003 - UIV	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	Min. of Educa- tion	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	RIS
Number of computers connected to the Internet per 100 students in primary education	-	eEu- rope+ 2003 - UIV	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003
Number of computers connected to the Internet per 100 students in secondary education	-	eEu- rope+ 2003-UIV	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003
Number of computers connected to the Internet per 100 students in tertiary education	-	eEu- rope+ 2003-UIV	-	eEu- rope+ 2003	eEu- rope+ 2003	Ministry of Educa- tion	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	-
Percentage of schools with Internet connection	-	UIV	Tiger Leap	-	LIIS project	Info. Soc. Devel- opment in LT	Min. of Educa- tion	Min. of Educa- tion	Min. of Educa- tion	RIS
Total expenditure on ICT in schools	-	UIV	-	-	LIIS project	-	-	Min. of Educa- tion	Min. of Educa- tion	SORS
<b>Competencies</b>										
IT trained teachers	-	UIV	Tiger Leap	-	Euro- barome- ter	Min. of Educa- tion	Min. of Educa- tion	Min. of Educa- tion	-	RIS
Number of teachers prepared for IT teaching per 100 pupils	-	UIV	-	-	-	Min. of Educa- tion	Min. of Educa- tion	Min. of Educa- tion	-	-
Share of students with IT skills	-	UIV	Tiger Leap, SOE	-	-	Min. of Educa- tion	-	-	-	-

Name of indicator	BG	CZ	EE	HU	LV	LT	PL	RO	SK	SI
Number of places in ICT related third level education	-	UIV in conjunction with CSÚ <sup>14</sup>	-	-	UNECE	-	NSI	-	-	Min. of Education
Number of graduates from ICT related third level education	-	UIV in conjunction with CSÚ <sup>15</sup>	SOE	-	UNECE	Min. of Education	NSI	-	-	University

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<sup>14</sup> In development

<sup>15</sup> In development

### 2.3.2 Available indicators per country

#### Bulgaria

No.	Name of indicator	Countries	Main Source
<b>A Policy and strategy</b>			
A1-1	Countries with an official policy on the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-2	Schedule for implementing national ICT education projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-3	Responsibility for the purchase and maintenance of hardware	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-4	Objectives in national ICT projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-5	Inclusion of ICT in the (national) curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-7	Approaches of ICT defined in the curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-8	Objectives defined in the curriculum for the teaching or the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
<b>B Infrastructure, Use and Access</b>			
<b>C Competencies</b>			

#### Czech Republic

No.	Name of indicator	Countries	Main Source
<b>A Policy and strategy</b>			
A1-1	Countries with an official policy on the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-2	Schedule for implementing national ICT education projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-3	Responsibility for the purchase and maintenance of hardware	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-4	Objectives in national ICT projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-5	Inclusion of ICT in the (national) curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-7	Approaches of ICT defined in the curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-8	Objectives defined in the curriculum for the teaching or the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
<b>B, C Infrastructure, Use and Access</b>			
B2-1	Number of computers per 100 pupils	CZ	ÚIV (2002)
-	Number of computers per 100 students in primary education	CZ	eEurope+ 2003 - ÚIV

No.	Name of indicator	Countries	Main Source
-	Number of computers per 100 students in secondary education	CZ	eEurope+ 2003 - UIV
-	Number of computers per 100 students in tertiary education	CZ	Europe+ 2003 - UIV
-	Number of computers connected to the Internet per 100 students in primary education	CZ	eEurope+ 2003 - UIV
-	Number of computers connected to the Internet per 100 students in secondary education	CZ	eEurope+ 2003 - UIV
-	Number of computers connected to the Internet per 100 students in tertiary education	CZ	eEurope+ 2003 - UIV
-	Percentage of schools with Internet connection	CZ	UIV
-	Total expenditure on ICT in schools	CZ	UIV
C1-4	Teachers using the Internet for non-computing teaching	CZ	ÚIV 2002
C1-7CZ	Pupils access to the Internet	CZ	ÚIV 2002
NEWED U-2	Share of primary and secondary education institutions with access to the Internet	CZ	ÚIV 2002
<b>D Competencies</b>			
-	IT trained teachers	CZ	UIV
-	Number of teachers prepared for IT teaching per 100 pupils	CZ	UIV
-	Share of students with IT skills	CZ	UIV
-	Number of places in ICT related third level education	CZ	UIV in conjunction with CSÚ <sup>16</sup>
-	Number of graduates from ICT related third level education	CZ	UIV in conjunction with CSÚ <sup>17</sup>

### Estonia

No.	Name of indicator	Countries	Main Source
<b>A Policy and strategy</b>			
A1-1	Countries with an official policy on the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-2	Schedule for implementing national ICT education projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-3	Responsibility for the purchase and maintenance of hardware	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-4	Objectives in national ICT projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-5	Inclusion of ICT in the (national) curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-7	Approaches of ICT defined in the curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-8	Objectives defined in the curriculum for the teaching or the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
<b>B, C Infrastructure, Use and Access</b>			

<sup>16</sup> In development

<sup>17</sup> In development



No.	Name of indicator	Countries	Main Source
B2-1	Number of computers per 100 pupils	EE	eEurope+2003
B2-4	Expected increases in the number of computers	EE	Tiger Leap
B2-5	Computers with access to school net and/or Internet	NAS	eEurope+2003
B2-7a	Placement of the computers	EE	Tiger Leap
B2-8	Schools with their own web site	EE	Tiger Leap
B2-9	Schools with on-line services	EE	Tiger Leap
C1-6	Teachers' opinion about the Internet as a tool	EE	Tiger Leap
C1-7	Pupils' access to the Internet	EE	Tiger Leap
<b>D Competencies</b>			
D1-1	New ICT and media students in percentages of all students	EE	SOE*
D1-2	New ICT and media students by level of education	EE	SOE
D1-3	Qualifications and degrees in information technology and media studies	EE	SOE
D1-7	Teachers' confidence in the use of ICT	EE	Tiger Leap
D1-10	ICT courses during initial training of general class teachers	EE	Tartu University, Tallinn Pedagogical University
D1-11	ICT trained teachers	EE	Tiger Leap
D1-13*:	Pupils' knowledge and skills of using computer	EE	Tiger Leap
D1-14*:	ICT competence of pupils	EE	Tiger Leap
D1-15*:	Teachers' knowledge and skills of using computer	EE	Tiger Leap

### Hungary

No.	Name of indicator	Countries	Main Source
<b>A Policy and strategy</b>			
A1-1	Countries with an official policy on the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-2	Schedule for implementing national ICT education projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-3	Responsibility for the purchase and maintenance of hardware	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-4	Objectives in national ICT projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-5	Inclusion of ICT in the (national) curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-7	Approaches of ICT defined in the curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-8	Objectives defined in the curriculum for the teaching or the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
<b>B, C Infrastructure, Use and Access</b>			
<b>D Competencies</b>			

## Latvia

No.	Name of indicator	Countries	Main Source
<b>A Policy and strategy</b>			
A1-1	Countries with an official policy on the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-2	Schedule for implementing national ICT education projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-3	Responsibility for the purchase and maintenance of hardware	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-4	Objectives in national ICT projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-5	Inclusion of ICT in the (national) curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-7	Approaches of ICT defined in the curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-8	Objectives defined in the curriculum for the teaching or the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
<b>B, C Infrastructure, Use and Access</b>			
B2-1	Sources of funding for ICT in schools	LV	LIIS project in LV <a href="http://www.liis.lv">www.liis.lv</a>
B2-2	Total expenditure on ICT in schools shared by type of source	LV	In LV LIIS project <a href="http://www.liis.lv">www.liis.lv</a>
B3-1	Number of computers per 100 pupils in primary/secondary/tertiary levels	NAS	eEurope+ 2003, Progress report, 2002
B3-2	Number of computers connected to the Internet per 100 pupils in primary/secondary/tertiary levels	NAS	eEurope+ 2003, Progress report, 2002
B3-3	Number of computers with high speed connections to the Internet per 100 pupils in primary/secondary/tertiary levels	NAS	eEurope+ 2003, Progress report, 2002
B3-4	Number of schools with computer labs	LV	United Nations Economic Commission for Europe
B3-5	Pupils per computer	LV	Data of LIIS project
B3-6	Internet connectivity of schools	LV	Data of LIIS project
B3-7	Internet connectivity of schools shared by type of connection	LV	Data of LIIS project
B4-1	Real use of Internet	LV	Data of LIIS project
B4-2	Pupils' access to the Internet	LV	LIIS project in LV <a href="http://www.liis.lv">www.liis.lv</a>
C1-4	The number of teachers trained	LV	LIIS (Latvijas izglitības informācijas sistēma)
C1-5	Teachers trained according ECDL standards	LV	LIIS (Latvijas izglitības informācijas sistēma)
<b>D Competencies</b>			
B5-1	ICT trained teachers	EU, LV	Eurobarometer

No.	Name of indicator	Countries	Main Source
			Flash 101, LIIS project <a href="http://www.liis.lv">www.liis.lv</a>
B5-2	Advanced level ICT trained teachers	LV	LIIS project <a href="http://www.liis.lv">www.liis.lv</a>
B5-3	Number of tutors -trainers	LV	LIIS project <a href="http://www.liis.lv">www.liis.lv</a>
B5-4	Number of places and graduates in ICT related third level education	LV	Country readiness assessment report, United Nations Economic Commission for Europe, Coordinating Unit for Operational Activities

### Lithuania

No.	Name of indicator	Countries	Main Source
<b>A Policy and strategy</b>			
A1-1	Countries with an official policy on the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-2	Schedule for implementing national ICT education projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-3	Responsibility for the purchase and maintenance of hardware	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-4	Objectives in national ICT projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-5	Inclusion of ICT in the (national) curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-7	Approaches of ICT defined in the curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-8	Objectives defined in the curriculum for the teaching or the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
<b>B, C Infrastructure, Use and Access</b>			
A4-2.1	Number of PCs for teaching purposes in primary school for 100 pupils	LT	Ministry of Education
A4-2.2	Number of PCs for teaching purposes in secondary school for 100 pupils	LT	Ministry of Education (isq)
A4-2.3	Number of PCs for teaching purposes in tertiary school for 100 pupils	LT	Ministry of Education (E+/isq)
A4-3.1*	Percentage of schools with an intranet	LT	Ministry of Education (isq)
A4-3.2	Percentage of schools with an internet connection	LT	Ministry of Education (isq)
A4-3.3	Percentage of primary schools with an internet connection	LT	Ministry of Education (isq)
A4-3.4	Percentage of secondary schools with an internet connection	LT	Ministry of Education (isq)
A4-3.5	Percentage of tertiary schools with an internet connection	LT	Ministry of Education (isq)

No.	Name of indicator	Countries	Main Source
A4-3.6	Number of teachers with pedagogical IT skills	LT	Ministry of Education (isq)
A4-4.1	Number of PCs for use of students in higher education institutions (including universities) for 100 students	LT	Ministry of Education (isq)
A4-4.2	Number of PCs for use of students in higher education institutions (including universities) with internet connection for 100 students	LT	Ministry of Education (isq)
A4-4.3*	Number of higher education institutions (including universities) with broadband internet connection	LT	Ministry of Education (isq)
<b>D Competencies</b>			
A4-3.7	Number of students with IT skills	LT	Ministry of Education (E+)

*Poland*

No.	Name of indicator	Countries	Main Source
<b>A Policy and strategy</b>			
A1-1	Countries with an official policy on the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-2	Schedule for implementing national ICT education projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-3	Responsibility for the purchase and maintenance of hardware	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-4	Objectives in national ICT projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-5	Inclusion of ICT in the (national) curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-7	Approaches of ICT defined in the curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-8	Objectives defined in the curriculum for the teaching or the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
<b>B, C Infrastructure, Use and Access</b>			
A1-1	Number of computers per 100 pupils in primary/secondary/tertiary levels	PL (E+)	Central Statistical Office
A1-2	Number of computers connected to the Internet per 100 pupils in primary/secondary/tertiary levels	PL (E+)	Central Statistical Office
A1-3	Number of computers with high speed connection to the Internet per 100 pupils in primary/secondary/tertiary levels	PL (E+)	Ministry of National Education and Sport
A1-4	Percentage of teachers using internet for non-computing teaching on a regular basis	PL (E+)	Ministry of National Education and Sport
B1-1	Sources of funding for ICT in schools	PL	Ministry of National Education and Sport
B1-2	Computer laboratories in schools	PL	Ministry of National Education

No.	Name of indicator	Countries	Main Source
			and Sport, Central Statistical Office
B1-3	Number of pupils per one computer in schools	PL	Ministry of National Education and Sport
B2-1	Number of computers connected to the Internet	PL	Ministry of National Education and Sport
B2-2	Number of pupils per one computer connected to the Internet	PL	Ministry of National Education and Sport
B3-1	Number of teachers knowing bases of computers application	PL	Ministry of national Education and Sport
B3-2	Number of teachers prepared for using computers on classes	PL	Ministry of National Education and Sport
B3-3	Number of teachers prepared for using TIK	PL	Ministry of National Education and Sport
B3-4	Number of teachers using TIK on classes of own subject	PL	Ministry of National Education and Sport
B3-5	Number of teachers having qualification for IT teaching	PL	Ministry of National Education and Sport
B3-6	Number of teachers prepared for IT teaching	PL	Ministry of National Education and Sport
B3-7	Number of IT teachers	PL	Ministry of National Education and Sport
<b>D Competencies</b>			
B3-8	Students of IT and Telecommunication in Poland	PL	Central Statistical Office
B3-9	Graduates of IT and Telecommunication in Poland	PL	Central Statistical Office

### Romania

No.	Name of indicator	Countries	Main Source
<b>A Policy and strategy</b>			
A1-1	Countries with an official policy on the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-2	Schedule for implementing national ICT education projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-3	Responsibility for the purchase and maintenance of hardware	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-4	Objectives in national ICT projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-5	Inclusion of ICT in the (national) curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-7	Approaches of ICT defined in the curriculum	EU, EFTA/EEA	Eurydice

No.	Name of indicator	Countries	Main Source
		and pre-accession countries	
A1-8	Objectives defined in the curriculum for the teaching or the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
<b>B, C Infrastructure, Use and Access</b>			
A1-3.1	Degree of Internet coverage in schools	RO	Ministry of Education and Employment Agency reports
<b>D Competencies</b>			

### Slovak Republic

No.	Name of indicator	Countries	Main Source
<b>A Policy and strategy</b>			
A1-1	Countries with an official policy on the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-2	Schedule for implementing national ICT education projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-3	Responsibility for the purchase and maintenance of hardware	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-4	Objectives in national ICT projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-5	Inclusion of ICT in the (national) curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-7	Approaches of ICT defined in the curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-8	Objectives defined in the curriculum for the teaching or the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
<b>B, C Infrastructure, Use and Access</b>			
A 4-1	Number of PCs in schools	SK	Ministry of Education
A4-1.2a	Number of PCs with e-mail access in schools	SK	Ministry of Education
A4-1.2b	Number of PCs with an Intranet connection in schools	SK	Ministry of Education
A4-1.2c	Number of PCs with an Internet connection in schools	SK	Ministry of Education
A4-1.8	Schools' expenditure for PCs	SK	Ministry of Education
A4-3.1	Schools with own website	SK	Ministry of Education
A4-3.3	Use of PCs in schools according to subject	SK	Ministry of Education
<b>D Competencies</b>			
-	Number of students having followed 2nd level IT-related courses (total)	SK	Ministry of Education
-	Number of students having followed 2nd level IT-related courses, of which women	SK	Ministry of Education

No.	Name of indicator	Countries	Main Source
-	A4-5.3 Number of students having followed 3rd level related courses (total)	SK	Ministry of Education
-	Number of students having followed 3rd level related courses, of which women	SK	Ministry of Education
-	Teachers' confidence in the use of ICT	SK	Ministry of Education
-	ICT courses during initial training of general class teachers	SK	Euridice

### Slovenia

No.	Name of indicator	Countries	Main Source
<b>A Policy and strategy</b>			
A1-1	Countries with an official policy on the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-2	Schedule for implementing national ICT education projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-3	Responsibility for the purchase and maintenance of hardware	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-4	Objectives in national ICT projects	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-5	Inclusion of ICT in the (national) curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-7	Approaches of ICT defined in the curriculum	EU, EFTA/EEA and pre-accession countries	Eurydice
A1-8	Objectives defined in the curriculum for the teaching or the use of ICT	EU, EFTA/EEA and pre-accession countries	Eurydice
<b>B, C Infrastructure, Use and Access</b>			
B1-4	Total expenditure on ICT in schools	SI	SORS
B1-5	Distribution of the specific budget between the purchase of equipment and expenditure on human resources	SI	Eurydice
B2-1	Number of computers per 100 pupils	SI	RIS
B2-2	Number and quality of computers available for administration, pupils and teachers	SI	RIS
B2-5	Computers with access to school net and/or Internet	SI	RIS
B2-6	Quality of Internet access in schools	SI	RIS
B2-7a	Number of places with the access to the Internet	SI	RIS
B2-10	Schools with Intranet, web site, e-mail	SI	RIS
C1-3	Use of external electronic communication services	SI	RIS
C1-4	Teachers using the Internet for non-computing teaching	SI (EEurope benchmarking indicator)	RIS
C1-5a	Internet use in teaching	SI (EEurope benchmarking indicator)	RIS
C1-5b	Internet use in teaching	SI (EEurope benchmarking)	RIS

No.	Name of indicator	Countries	Main Source
		indicator)	
C1-6	Teachers opinion about the Internet as a tool	SI (EEurope benchmarking indicator)	RIS
C1-7	Pupils access to the Internet	SI	RIS
C1-10	Teachers who connect with other schools via the Internet	SI	RIS
A1-3.1	Rate of student access to computers	SI	RIS
<b>D Competencies</b>			
A4-5.1	Number of students having followed 2 <sup>nd</sup> level IT-related courses (total)	SI	Ministry of Education (isq)
A4-5.2	Number of students having followed 2 <sup>nd</sup> level IT-related courses, of which women	SI	Ministry of Education (isq)
A4-5.3	Number of students having followed 3rd level IT-related courses (total)	SI	Ministry of Education (isq)
A4-5.4	Number of students having followed 3rd level IT-related courses, of which women	SI	Ministry of Education (isq)
D1-3	Qualifications and degrees in information technology and media studies	SI	University
D1-7	Teachers' confidence in the use of ICT	SI	RIS
D-1-10	ICT courses during initial training of general class teachers	SI	Eurydice
D1-12	Importance of the Internet for education and administration	SI	RIS



### 3 Work, employment and skills

#### 3.1 Key Policy Papers on Work, Employment and Skills in the Information Society in the NAS

Title of document	Author	Year	Type of document
<b>Key supranational policy documents relevant to work, employment and skills</b>			
eEurope+ 2003. A Cooperative Effort to Implement the Information Society in Europe	European Commission and Candidate Countries	June 2001	Action Plan
eEurope+ 2003. Progress Report	European Commission and Candidate Countries	June 2002	Report
Ministerial Conclusions	European Ministerial Conference, Ljubljana	June 2002	Statement
<b>Key documents relevant to work, employment and skills from Bulgaria</b>			
Strategy for Information Society development	Ministry of Economy	1999	Action plan
Strategy for modernisation of the state administration	Government	2002	Action plan
<b>Key documents relevant to work, employment and skills from the Czech Republic</b>			
National Employment Plan	Ministry of Labour and Social Affairs	1999	Strategy
Strategy of the State Information Politics in Education	Ministry of Education, Youth and Sports	2001	Strategy
National Action Plan for Employment	Ministry of Labour and Social Affairs	2002	Action plan
<b>Key documents relevant to work, employment and skills from Estonia</b>			
Report on the vocational education and training system	National Observatory of Estonia	latest 2000	Report
Modernisation of Vocational Education and Training in Estonia	National Observatory of Estonia, European Training Foundation	latest, 2001	Report
Research and Development in Estonia 2000-2001	Research and Development Council of Estonia	2001	Report
Report on research and development	Council of the EU, Economic Policy Committee	2001	Report
Action Plan for Developing Estonian VET System in 2001-2004	Ministry of Education, National Observatory	2001	Action Plan
Joint Assessment of Employment Priorities of Estonia	European Commission, Ministry of Social Affairs	2001	Evaluation
"Entrepreneurial Estonia" - document on entrepreneurship policy	Ministry of Economic Affairs and Communication	2001	Strategy
Joint Assessment of Employment Priorities of Estonia. Progress Report 2002	Ministry of Social Affairs	2002	Report
"Knowledge-Based Estonia" – The Research and Development Strategy of Estonia for 2002-2006	Ministry of Education, Ministry of Economic Affairs and Communications	2002	Strategic document
IST R&D and innovation in Estonia	Estonian eVikings	2002	Report
Strategy of Life-long Learning (draft)	Ministry of Education and Research	2002	Strategy

Title of document	Author	Year	Type of document
Employment Action Plan	Ministry of Social Affairs	latest 2003	Action Plan
Increasing employment, preventing long-term unemployment and exclusion of risk groups from working life	Ministry of Social Affairs	latest 2003	Programme
Estonian National Development Plan – Single Programming Document 2003-2006	Ministry of Finance	2003	Strategy
<b>Key documents relevant to work, employment and skills from Hungary</b>			
National Employment Promotion Strategy and Program	Ministry of Economic Affairs	2000	Action Plan
Annual Labour Market Report: Main Trends in Labour Demand and Supply	Laky, T. Labour Research Institute	latest 2002	Report
Labour Market Report (annual)	Fazekas, K., Economic Institute, Hungarian Academy of Sciences	latest 2002	Report
<b>Key documents relevant to work, employment and skills from Latvia</b>			
National program "Informatics" 1999–2005	Ministry of Transport	1998	Action Plan
Conceptual guidelines of socio-economic program "eLatvia"	Ministry of Economics	2001	Action Plan
On Arranging Activities to Ensure Active Employment	Ministry of Welfare	2001	Regulations
<b>Key documents relevant to work, employment and skills from Lithuania</b>			
Strategic Plan of Lithuanian Information Society Development	Government	2001	Strategy
Conceptual framework of the national information society development of Lithuania	Government	2001	Resolution
<b>Key documents relevant to work, employment and skills from Poland</b>			
White Book	URM, State committee for Scientific Research	1995	White book
Strategy of IT Development in Poland (1)	Polish IT Society	April 1995	Report
Strategy of IT Development in Poland (2)	Polish IT Society	June 1999	Report
National Strategy of Employment Increase and Human Resources Development 2000-2006	KBN – State Committee for Scientific Research	2000	Strategy
Poland 2025 Long-term Strategy of Lasting and Sustainable Development	State Committee for Scientific Research	July 2000	Strategy
Aims and Directions of the Information Society development in Poland	State Committee for Scientific Research	Nov 2000	Strategy
National Program of preparation for membership in EU	State Committee for Scientific Research	June 2001	National Program
ePolska- Action plan: 2001-2006	Ministry of Economy	Sep 2001	Action Plan
Reports on the action plan realisations	State Committee for Scientific Research	2001, 2002	Report
Labor Law	Polish Parliament	latest 2002	act of law
ePolska-2006: Active plan for IS development in Poland	Ministry of Infrastructure	2002	Action Plan
<b>Key documents relevant to work, employment and skills from Romania</b>			
National Action Plan for Employment – 2001-2004	Work and Social Solidarity Ministry	2000	Action Plan
White paper of PSD governance	Romanian Government	2001	Report
Contract Commitment Employment Agency-Work and Social Solidarity Ministry (Annual since 2000)	Work and Social Solidarity Ministry-Employment Agency	2001	Report

Title of document	Author	Year	Type of document
National Active Employment Agency Program for Employment - 2001-2004	Employment Agency	2001	Action Plan
Government Program: Pillar IV "Fighting on Poverty" - 2001-2004	Work and Social Solidarity Ministry	2001	Action Plan
<b>Key documents relevant to work, employment and skills from Slovakia</b>			
Act N. 52/1998 on protection of personal data in information systems	Government	1998	Act
National Employment Plan	Ministry of Labour, Social Affairs and Family	2000	Strategy
National Action Plan for Employment for years 2002-2003	Ministry of Labour, Social Affairs and Family	2002	Action plan
Yearbook Information Society	Statistical Office of the Slovak Republic	2003	
<b>Key documents relevant to work, employment and skills from Slovenia</b>			
eEurope+ implementation activities in Slovenia	Ministry of Information Society	2001	Report
Electronic Commerce and Signature Act (ZEPEP)	Government	2001	Act
National Development Plan (NRP RS 2001-2006)	Government	2001	Action Plan
National Programme of the Development of Telecommunications (NPRTel)	Ministry of Information Society	2001	Programme
Telecommunication Act (ZTel-1)	Government	2001	Act
The Provision on the Foundation of the Working Group for the Secure Internet and e-Commerce	Ministry of Information Society	2001	Report
The Strategy of Economic Development in RS 2001-2006 (SGRS 2001-2006)	Government (UMAR)	2001	Strategy
The Act on Work (ZDR)	Ministry of Education, Science and Sport	2002	Act
State administration Act (ZDU-1)	Government	2002	Act
The Strategy of Republic of Slovenia in Information Society	Ministry of Information Society	2002	Strategy

### 3.2 NAS Data Sources on Work, employment and skills in the Information Society

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
<b>Key supranational data sources on work, employment and skills in the Information Society</b>					
Continuing Vocational Training Survey (CVTS) <sup>18</sup>	EU Commission 1997voc; Egner 2001	DMS (enterprises > 9 workforce); e.g. 3,200 companies in Germany	Eurostat	EU + BG,CZ,EE,HU,LT,LV,PL,RO,SI	1994, 2000
Cranfield European Human Resource Management Survey <sup>19</sup>	Brewster et al. 1996; 1997; 2000	Human resource managers in companies	Cranfield	EU + BG,CZ,EE,HU,PL,SI + AU,CD,CY,IN,IL,JP,NZ,NR,ZACH,TW,TN,TR,US.	5 rounds since 1990, latest published: 1999
eEurope+2003, progress report, June 2002	Joint High Level Committee	An overview of action undertaken by the candidate countries since the adoption of the eEurope+ Action Plan, listing indicators measuring Information society	Joint High Level Committee	NAS including LV	2001
EMERGENCE Employer Survey	Huws 2001; Huws & O'Regan 2001	8000 employers, representative, > 50 employees, all sectors	IES/ NOP	EU + HU, PL, CZ	2000 (one-off)
Employment in Europe	Employment in Europe 2002	Various sources (mainly Eurostat Benchmark Employment Series and Labour Force Survey)	European Commission	EU and NAS	since 1991

<sup>18</sup> "The CVT-survey objectives were to obtain data from a representative sample of enterprises about: a) The number of individuals taking part in training; b) The number of participants per type of activity and size category; c) The costs of training; d) Training in the enterprises and outside; e) Outside training per type of institution; f) Training area per type of training institution; g) Training by area in the undertaking; h) Duration of training in the undertaking; i) Participation by gender." (Brandsma and Kornelius 1999: 5)

<sup>19</sup> Questionnaire see <http://cranet.biu.ac.il/SOC/sb/cranet/sode.html>.

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
European Survey of Information Society (ESIS II) – Extension to Central and Eastern European Countries and Mediterranean Area	ESIS Knowledge Base -	The inventory was build with information collected via a standardised questionnaire which was translated in all local languages. The questionnaire is available on the website to be filled in by project promoters. <sup>20</sup>	ISPO	CEEC and Mediterranean countries	updated every three months
European System of Social Indicators (EUSI)	Berger-Schmitt 2001	presents harmonised data from various sources	ZUMA, EuReporting Project Consortium	EU15, CH, CZ, HU, N, PL, USA, JAP	various
ILO Collection of Labour Statistics	Yearbook of Labour Statistics	administrative data collection	ILO	World	annually
ILO KILM	ILO 2000kilm	administrative data collection	ILO	World	various
International Adult Literacy Survey	OECD 1995lit; 1997lit; 2000lit.	GPS (2000 to 8000 adults aged 16-65 per country)	OECD, Statistics Canada	1994: CD, D, IRL, NL, PL, S, CH (part), USA. 1996: AUS, B, IRL, UK, Z. 1998: CZ, DK, FIN, HU, I, N, SI, CH (rest).	1994, 1996, 1998
International Social Survey Programme (ISSP), Module on “work orientation”	e.g. Berger-Schmitt 2001	ca. 1000 per country	CZ: SÚ AV CR (research: agency STEM); HU: Social Research Institute	A, UK, IRL, I, NL, N, D, HU, USA plus (only 1997): F, DK, P, E, S, CH, CZ, PL, JAP.	1989, 1997
Information society statistics	Statistics in focus, Theme 4-37/2001, 4-17/2002,	Information society statistics	Eurostat	NAS	1990, 1998, 1999, 2000, 2001

<sup>20</sup> Topics: Telecommunications basic indicators, Regulatory developments, Alternative networks, IS Promotional activities, IS Key persons contacts and organisations, www sites indicators, statistical analysis of the ESIS II database, Estimation of Information Society projects

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
OECD Data Collection on Human Capital Investment	OECD 1998hci	various	OECD	OECD	latest published: 1998
OECD Data Collection on ICT Sector	OECD 2000meas	various	OECD	OECD	various, latest published: 2000
OECD Data Collection on Science, Technology and Industry <sup>21</sup>	OECD 1999score	various	OECD	OECD	various, latest published: 1999
OECD Labour Force Statistics	Quarterly Labour Force Statistics (quarterly); Labour Force Statistics (annual)	administrative data collection	OECD	OECD	quarterly/annually
PHARE – Indicators for monitoring and comparison of implementation of 'e-Europe'	www.mtc.government.bg	10 Candidate countries	Ministry of Transport and Communications	10 NAS	
Structural Indicators	Various EC publications	Various sources	Eurostat	EU, NAS	Annually
Working Life Barometer	Working Life Barometer in the Baltic Countries 1999 (Antila & Ylöstalo).	Wage earners and entrepreneurs aged 16-64. Sample: 911	Ministry of Labour (Finland), Ministry of Social Affairs (Estonia), Saar-Poll	EE, LV, LT	1996, 1998, 2002
<b>Key data sources on work, employment and skills in the Information Society from Bulgaria</b>					
National statistical council	www.stat.bg	Households, enterprises	NSC	BG	
National Statistical Institute, each year	Statistical Yearbook of Bulgaria www.nsi.bg	Households, enterprises	NSI Bulgaria	BG	
<b>Key data sources on work, employment and skills in the Information Society from the Czech Republic</b>					
CSÚ	Výberové šetření pracovních sil – VŠPS (Survey on workforce); Statistical yearbook	Different surveys and statistics.	CSÚ – Czech statistical office	CZ	Statistical yearbook of the Czech Republic, every year; VŠPS quarterly, since 2002 with supplement about the ICT
ISSP, SSVE	Sociological archive of data by SÚ AV CR	GPS on a theme every year;	SÚ AV CR (research: agency STEM)	CZ + others	ISSP Work orientations II, 1997 SSVE Social Stratification in Eastern Europe After 1989. 1993, 1994

<sup>21</sup> See also <http://www.oecd.org/subject/cstp/1999/stats.htm>.

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
MPSV	Basic Indicators of Labour and Social Protection in the Czech Republic 2002	Monitoring of job market	MPSV - Ministry of Labour and Social Affairs	CZ	Monthly statistics about employment
SIALS	I risultati della ricerca IALS-SIALS in 21 Paesi (1994-2000) - <a href="http://www.cede.it/ricerche-internazionali/sials/documenti/risultati21paesi.doc">http://www.cede.it/ricerche-internazionali/sials/documenti/risultati21paesi.doc</a>	GPS	IN CZ: Czech SIALS team (headed by Dr. Mateju)	CZ	1997
UIV	Alumni <a href="http://www.uiv.cz/index.php?CATG[]=tuzemske_projekty;CATG[]=absolventi;DOC=_absolventi.xml">http://www.uiv.cz/index.php?CATG[]=tuzemske_projekty;CATG[]=absolventi;DOC=_absolventi.xml</a>	Research of alumni	UIV – The Institute for Information on Education	CZ	1999-2000
<b>Key data sources on work, employment and skills in the Information Society from Estonia</b>					
Adult continuing training survey	Elukestva õppe vajaduste analüüs. CD-Rom 2002	Population 15-74 Sample: 1008	Saar-Poll, Ministry of Education, Andras	EE	1995, 2001
Adult Education Survey	Adult Education Survey. Standard tabulations. Statistical Office 1998	Population aged 20-60 Sample: 4400	Statistical Office of Estonia	EE	1997
E-track survey	<a href="http://www.emor.ee">www.emor.ee</a>	500 persons (aged 15-74) in month	Emor Ltd	EE	2001, 2002
2002 European Innovation Scoreboard data	In Estonian National Development Plan – Single Programming Document 2003-2006.		Ministry of Finance	EE	2001
Hourly Wages and Salaries. Survey	Hourly Wages and Salaries 2001. Yearbook	10 000 enterprises (in a year)	Statistical Office of Estonia	EE	2000, 2001

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Household Income and Expenditure Survey	Household Living Niveau 2001. Yearbook ESA, 2002	820 households per month	Statistical Office of Estonia www.stat.ee	EE	2000, 2001 (The Statistical Office carries out the Household Income and Expenditure Survey regularly since July 1995, but since 2000 the Household Budget Survey uses a new modified methodology)
Impact of information and communication technology and telework use on employment	Infotehnoloogia, telekommunikatsiooni ning kaugtöö kasutuse mõju tööhõivele. Ariko Marketing, 2002	Population aged 15-74. Sample: 1000 persons, 300 entrepreneurs	Ariko Marketing, Ministry of Social Affairs	EE	2002
Information technology and Internet in Estonian companies. Survey	www.emor.ee	500 enterprises	Emor Ltd	EE	2001, 2002
Innovation Survey	Innovation in Estonian Enterprises 1998-2000. Foundation Enterprise Estonia, 2002 (www.mkm.ee)	4267 enterprises	Ministry of Economic Affairs, Foundation Enterprise Estonia, Statistical Office of Estonia, Estonian Institute for Future Studies	EE	1998-2000
Labour Force Survey	Labour Force 2001. Statistical Office of Estonia	Household survey. Population aged 15-74.	Statistical Office of Estonia	EE	1995, 1997, 1998, 1999, 2000, 2001, 2002, 2003
Living Conditions Survey	Living Conditions Study in Estonia 1999. Baseline Report. NORBALT II. Tartu 2000. <sup>22</sup>	Household survey 5500 households	Tartu University, Statistical Office of Estonia, Ministry of Social Affairs, Institute of Applied Social Research Fafo (Norway)	EE	1994, 1999
Regional Company Skills Survey in South Estonia	Regional Company Skills Survey in South Estonia. 2002	60 enterprises	Estonian National Observatory	South-Estonia	2001
Sectoral Study in the Metal- and Machine Industry in Estonia	Eesti metalli-, masina- ja aparatuuritööstus. Sektoriuuring.	370 enterprises	Ministry of Social Affairs, Estonian National Observatory, AS PW Partners	EE	2001

<sup>22</sup> <http://www.sm.ee/gopro30/Web/gpweb.nsf/pages/indexeng.html>



Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Sectoral Study in the Wood Processing and Furniture Industry in Estonia	Eesti puidu- ja mööblitööstuse sektoruuring. www.sekr.ee	337 enterprises	Ministry of Social Affairs, Estonian National Observatory, AS PW Partners	EE	1999
Sectoral Study in the Information and Communication Technology (ICT) in Estonia	Eesti infotehnoloogia ja telekommunikatsioon. Sektoruuring. 2002	194 enterprises	Ministry of Social Affairs, Ministry of Education, Estonian National Observatory, AS PW Partners	EE	2002
Social Statistics	Social Sector in Figures 2002		Ministry of Social Affairs	EE	1995-2001
Survey of the working environment in Estonia	A survey of the working environment in Estonia. EMOR 2000	Population aged 15-74. Sample: 500 persons and 400 enterprises	EMOR, Ministry of Social Affairs	EE	2000
Time Use Survey	Ajakasutus. Time Use 1999-2000. Statistical Office of Estonia 2001	Population aged 10+. Sample: 3500 households	Statistical Office of Estonia	EE	1999-2000
Wages and Salaries	Wages and Salaries. Quarterly bulletin	5000 enterprises in month	Statistical Office of Estonia	EE	2000, 2001, 2002
<b>Key data sources on work, employment and skills in the Information Society from Hungary</b>					
HCSO Institution-based labour statistics	HCSO statistics	Includes data on enterprises with 5 employees at least, budgetary and social security institutions and certain non-profit organizations.	HCSO	HU	monthly
Labour Force Survey	HCSO statistics	According to tabulation scheme of European Labour Force Survey	HCSO	HU	annually between 1992-1998; quarterly since 1999
Unemployment Register	Labour Research Institute	Includes data on those unemployed not in pensioner or student status.	Employment Office	HU	monthly since 1989
Wage Survey	HCSO statistics	Business sector establishments, budgetary organizations, and professional employees of armed bodies are covered by the surveys.	Employment Office	HU	1983, 1986, 1989; annually since 1992

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
<b>Key data sources on work, employment and skills in the Information Society from Latvia</b>					
Central statistical bureau	The statistical yearbook	Data on all topics characterising the development of country	Central statistical bureau	LV	Annually
Labour Force Survey		Participation for all in the knowledge-based economy	Central statistical bureau	LV	Annually
Ministry of Economics	Report on development of Latvia's national economy	Data on all topics characterising the development of country	Ministry of Economics	LV	2000, 2001
National program of Statistical information		Response on e-Europe+ initiative, data collection is based on Eurostat module 491, survey questionnaires are used.	Central statistical bureau	LV	Annually
United Nations Economic Commission for Europe, Coordinating Unit for Operational Activities, Riga, 2002	Towards a knowledge-based economy, Country readiness assessment report, Latvia	Towards a knowledge-based economy	United Nations Economic Commission for Europe, Coordinating Unit for Operational Activities	LV	2002
<b>Key data sources on work, employment and skills in the Information Society from Lithuania</b>					
eEurope+ Progress Report	Information and informatics department to the Ministry of Interior, Statistics Lithuania 2001, 2002	An overview of action undertaken by Latvia since the adoption of the eEurope+ Action Plan, listing indicators measuring Information society	Information and informatics department to the Ministry of Interior, Statistics Lithuania	LT	Half-annually
Information society development in Lithuania. Report	Statistics Lithuania 2002	Overview of ICT sector development in Lithuania – includes comparisons with EU and other candidate countries	Statistics Lithuania	LT	annually
IT usage in households. Survey	Statistics Lithuania 1999, 2000, 2001, 2002	PC and Internet accessibility in households	Statistics Lithuania	LT	annually
<b>Key data sources on work, employment and skills in the Information Society from Poland</b>					

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Education	Statistical Yearbook of the Republic of Poland	The education of pre-school children, education for children and youth (primary, lower secondary, general secondary as well as technical and vocational secondary education), post-secondary, tertiary (university level) as well as adult education (primary, lower secondary and secondary)	GUS - Central Statistical Office	PL	annually
Household budgets	Household budgets; Statistical Yearbook of the Republic of Poland	0,3 % of all groups of households, with the exemption of those living in institutional households as well as households whose members are foreigners	GUS – Central Statistical Office	PL	quarterly
Labour Force Survey	Statistical Yearbook of the Republic of Poland	Persons aged 15 and more	GUS - Central Statistical Office	PL	quarterly
<b>Key data sources on work, employment and skills in the Information Society from Romania</b>					
Contract Commitment Employment Agency-Work and Social Solidarity Ministry (Annual since 2000)	Annual Reports	Employment rate, unemployment, women, persons with disabilities	Employment Agency	RO	Annually since 2000
Ministry of Telecommunications	Annual Reports	ICT, internet jobs	Ministry of Telecommunications	RO	Annually since 2000
Ministry of Work and Social Solidarity	Annual Reports	Work contracts	Ministry of Work and Social Solidarity	RO	Annually since 1998
National Direction of Statistics	Annual Reports	Labour resources	Annual Reports	RO	Annually
Romanian Ministry of Education and Employment Agency	Annual Reports	Youngsters, training courses	Romanian Ministry of Education and Employment Agency	RO	Annually since 2000
<b>Key data sources on work, employment and skills in the Information Society from Slovakia</b>					
Information Technologies in enterprises	Selected Indicators on IT in enterprises	Annual survey using EUROSTAT and OECD methodology	Statistical Office of the Slovak Republic	SK	Annually, data will be available from 2002
Information Technologies in Households	Selected Indicators on IT in households	Census Households by EUROSTAT and OECD methodology	Statistical Office of the Slovak Republic	SK	Annually, data will be available from 2003

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Labour Force Survey	Labour Force Sample Survey Results; Statistical Yearbook; Social Trends in the SR	Sample survey in households; Population aged 15+	Statistical Office of the Slovak Republic	SK	Quarterly from 1993
Lifelong Learning Survey	Labour Force Sample Survey Results	Ad hoc module to the LFS; Population aged 15+	Statistical Office of the Slovak Republic	SK	2 <sup>nd</sup> quarter 2003
Microcensus of households 2003	Microcensus of households 2003	Sample survey	Statistical Office of Slovak Republic	SK	Annually <sup>23</sup>
Program of State Statistical Surveys	Selected indicators on Information Technology, Health Insurance Companies, the Social Insurance Agency and the National Labour Office and all Government sector	Annual survey of Information society in e-Government by OECD methodology, employees in compulsory insurance companies	Statistical Office of the Slovak Republic	SK	Annually, data will be available from 2003
Register of unemployment	www.nup.sk	unemployed; job vacancy	National Labour Office	SK	Monthly, quarterly
<b>Key data sources on work, employment and skills in the Information Society from Slovenia</b>					
ICT Literacy 2002	Vehovar et al.	GPS	FDV (RIS)	SI	2002
Labour force survey	Rapid Reports - Labour Market: Labour force survey results (SORS)	LFS	SORS	SI	Quarterly
Labour Market: Wages and Pensions	Rapid Reports - Labour Market: Wages and Pensions (SORS)	Registered companies, enterprises, organisations	SORS	SI	monthly
Personal Computers in Slovenian Enterprises	Vehovar et al.	DMS	FDV (RIS)	SI	1996-2001
SJM (Slovenian Public Opinion): ISSP	Toš et al.	GPS	FDV (CJMMK)	SI	annually
Statistical Yearbook of the Republic of Slovenia	SORS	various	SORS	SI	annually
Telework and ICT at work	Vehovar et al.	GPS	FDV (RIS)	SI	2000/01
Telework in Slovenia	Vehovar et al.	GPS	FDV (RIS)	SI	2002
Time Use Survey	SORS	GPS	SORS	SI	2000/2001

<sup>23</sup> A sample survey starting in 2003 for collecting data for year 2002.

<b>Name of data source (Acronym)</b>	<b>Main publication(s) of interest for SIBIS</b>	<b>Description (incl. target, survey unit)</b>	<b>Responsible</b>	<b>Country coverage</b>	<b>Frequency</b>
Vocational and Expert Education in Slovenia in 1999	Geržina et al	population	National VET Observatory Slovenia	SI	1998, 1999

### 3.3 NAS Indicators on Work, employment and skills in the Information Society

#### 3.3.1 Overview of selected indicators available for various countries<sup>24</sup>

Name of indicator	BG	CZ	EE	HU	LV	LT	PL	RO	SK	SI
<b>Skill acquisition</b>										
Educational attainment	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat
Number of science & technology students in the national education system	-	UIV in conjunction with CSÚ <sup>25</sup>	-	-	Ministry of Educ.	Info. Soc. Development in LT	-	-	Ministry of Educ.	-
Number of places in ICT related third level education	-	UIV in conjunction with CSÚ <sup>26</sup>	-	-	Min. of Education	-	-	-	Ministry of Educ.	MIS
Participation rate in education and training (LLL)	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	LFS	Eurostat	Eurostat	Eurostat	Eurostat
Employer-provided education and training	-	CSÚ (CVTS)	SOE	-	NSI	-	-	Public Employ. Agency	Ad hoc. 2003 SO SR	-
Spending by enterprises on training	-	CSÚ (CVTS)	CVTS	-	-	-	-	-	CVTS SO SR	-
Workplaces linked to the Internet	-	CSU	Working Life Barometer	-	Working Life Barometer	Working Life Barometer	-	-	MPTT	RIS

<sup>24</sup> The table contains indicators for which indicators and data are available at the time of writing (national/international sources are mentioned). This does not mean, however, that direct comparability between countries is given in each case.

<sup>25</sup> In development

<sup>26</sup> In development

Name of indicator	BG	CZ	EE	HU	LV	LT	PL	RO	SK	SI
Public Internet Access Points	-	CSÚ	Estonian Informatics Centre	-	Latvian National Library	ISDC	Polish Ministry of Culture	Min. of Telecom.	MPTT	MIS
<b>Skill provision</b>										
Number of graduates from ICT related third level education	-	UIV in conjunction with CSÚ	-	-	Min. of Education	SL (si)	Ministry of National Education and Sport <sup>27</sup>	Min. of Education	Ministry of Educ.	SORS
European Computer Driving Licence	-	ECDL CZ	Estonian Informatics Centre	-	-	-	-	-	-	-
Literacy skills	-	IALS		IALS			IALS	NSI	SO SR	IALS
<b>Work content/applied skills</b>										
Use of computer for work	-	CSÚ	Working Life Barometer	-	Working Life Barometer	Working Life Barometer	-	Min. of Telecom.	SOSR IT stat.	RIS
Job autonomy	-	SÚ AV CR	Working Life Barometer	-	Working Life Barometer	Working Life Barometer	-	-	Household Survey	-
<b>Time of Work</b>										
Voluntary part-time work	-	CSÚ-VSPS	LFS	LFS	-	-	-	-	LFS	LFS
Irregular working times	-	LFS	LFS	LFS	-	-	-	-	LFS	LFS
Temporal autonomy	-	-	LFS	-	-	-	-	-	-	LFS

<sup>27</sup> In development

Name of indicator	BG	CZ	EE	HU	LV	LT	PL	RO	SK	SI
<b>Place of Work</b>										
Work at home	-	CSU	LFS	Household Panel	-	-	-	-	LFS	LFS, RIS
Home-based telework	-	CSÚ	Working Life Barometer	-	Working Life Barometer	Working Life Barometer	-	-	Household Survey	RIS
Use of telework/remote access by companies	-	CSÚ	Survey	-	-	-	GUS	-	SO SR IT stat.	RIS
eWork within the organisation	-	EMER-GENCE	-	EMER-GENCE	-	-	EMER-GENCE	-	-	-
Outsourced eWork	-	EMER-GENCE	-	EMER-GENCE	-	-	EMER-GENCE	-	-	-
<b>Contract of Work</b>										
Rate of atypical employment (adjusted)	-	CSÚ	SOE (LFS)	LFS	-	-	-	-	LFS	LFS
Rate of self-employment	LFS	LFS	LFS	LFS	LFS	LFS	LFS	LFS	LFS	LFS
Temporary/ fixed-term contracts	LFS	LFS	LFS	LFS	LFS	LFS	LFS	LFS	LFS	LFS
Job tenure	-	LFS	LFS	LFS	-	-	-	-	-	LFS
<b>Benefits from employment</b>										
Monthly earnings	-	CSÚ	-	HCSO	-	-	-	Public Employ. Agency	SO SR	LCS
Hourly wages	ILO KILM	ILO KILM	ILO KILM	ILO KILM	ILO KILM	ILO KILM	ILO KILM	ILO KILM	ILO KILM	ILO KILM
Perceived high income / material status	-	ISSP	-	ISSP	-	-	ISSP	-	-	SJM
<b>Level and structure of employment</b>										
Employment rate, unemployment rate, also broken down by gender	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat, GUS	Eurostat	Eurostat	Eurostat
Employment in the ICT sector	LFS	LFS	LFS	LFS	LFS	LFS	LFS	LFS	LFS	LFS



<b>Name of indicator</b>	<b>BG</b>	<b>CZ</b>	<b>EE</b>	<b>HU</b>	<b>LV</b>	<b>LT</b>	<b>PL</b>	<b>RO</b>	<b>SK</b>	<b>SI</b>
Rate of employment in SMEs	-	CSÚ	LFS	-	-	-	-	Ministry	SO SR	LFS
<b>Output of Employment</b>										
Labour productivity (static)	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat
Labour productivity (growth)	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat	Eurostat
Unit labour costs	ILO	ILO	ILO	ILO	ILO	ILO	ILO	ILO	ILO	ILO

### 3.3.2 Available indicators per country

#### Bulgaria

No.	Name of indicator	Countries	Main Source
<b>A – Skills</b>			
<b>B – Work organisation</b>			
<b>C – Structure and outcomes of employment</b>			

#### Czech Republic

No.	Name of indicator	Countries	Main Source
<b>A – Skills</b>			
-	Number of science & technology students in the national education system	CZ (in development)	UIV in conjunction with CSÚ
-	Number of places in ICT related third level education	CZ (in development)	UIV in conjunction with CSÚ
-	Employer-provided education and training	CZ	CSÚ (CVTS)
-	Spending by enterprises on training	CZ	CSÚ (CVTS)
-	Workplaces linked to the Internet	CZ	CSU (Statistical information on enterprises)
A1-2.6	Vocational education and training	CZ	CSÚ
A1-3.5	Public Internet Access Points (PIAPs)	CZ	CSÚ
A1-3.6	Libraries offering Internet access to the public	CZ	IPOS
-	Number of graduates from ICT related third level education	CZ	UIV in conjunction with CSÚ
A2-2.5	European Computer Driving Licence (ECDL)	Various European	ECDL
A2-3.1	Literacy skills	OECD	IALS (OECD)
<b>B – Work organisation</b>			
B1-4.5	Independence at work	CZ, HU, EU15	ISSP (EUSI)
B2-1.1	Voluntary part-time work	CZ	CSÚ - VŠPS
B2-2.1	Involuntary part-time work	EU, CZ	Eurostat (LFS)
B2-2.2	Irregular working times	EU, CZ	Eurostat (LFS)
B3-1.2	Use of remote access by companies	CZ	CSÚ
B3-1.9	Teleworking from home	CZ	CSÚ
B3-2.3*	"eWork" within the organisation	EU, HU, PL, CZ	EMERGENCE
B3-2.4*	Outsourced "eWork"	EU, HU, PL, CZ	EMERGENCE
B3-2.5*	Supply of outsourced "eWork" services	EU, HU, PL, CZ	EMERGENCE
B4-1.1	Adjusted rate of atypical employment	CZ	CSÚ
B4-2.1	Rate of self-employment	CZ	CSÚ
B4-2.2	Adjusted rate of self-employment	CZ	CSÚ
B4-3.1	Employment Protection Legislation Indicator	OECD	OECD
B4-4.1	Temporary/fixed-term work contracts	CZ	CSÚ
B4-4.2	Job tenure	CZ (in development)	LFS
B4-4.3	Job changes	EU, ...	ECHP (EUSi)
B4-4.4	Stability of self-employment	CZ (in development)	LFS
<b>C – Structure and outcomes of employment</b>			
C1-1.1	Monthly earnings	CZ	CSÚ (TREXIMA)
C1-1.3	Perceived high income	CZ, HU, EU15	ISSP

No.	Name of indicator	Countries	Main Source
C1-2.1	Life satisfaction of workers	CZ, HU, EU15	ISSP
C1-2.2 CZ	Job satisfaction	CZ, HU, EU15	ISSP
C1-2.3	Satisfaction with job characteristics	CZ, HU, EU15	ISSP
C1-2.5	Good job content	CZ, HU, EU15	ISSP
C1-2.1	Life satisfaction of workers	CZ, HU, EU15	ISSP
C1-2.7	Individual perception of job security	CZ, HU, EU15	ISSP
C1-2.9	Subjective assessment of labour market opportunities	CZ, HU, EU15	ISSP
C1-2.14	Hard work	CZ, HU, EU15	ISSP
C2-1.1	Total employment rate	World	ILO
C2-1.2	Total employment rate (full-time equivalents)	World	ILO
C2-1.3	Employment rate of women	World	ILO
C2-1.4	Employment rate of older people	World	ILO
C2-2.1	Employment in the ICT sector	OECD	OECD
C2-2.2	Share and growth of employment in the Information Society, high-tech and knowledge-intensive sectors	EU, CZ	Eurostat, CSÚ
C2-2.3	Rate of employment in SMEs	EU, CZ	CSÚ
C2-2.6	Rate and share of employment in services	EU, CZ	CSÚ
C2-3.1	Total unemployment rate	World	ILO
C2-3.2	Time-related underemployment	EU, CZ	Eurostat
C2-3.4	Re-employment rate	EU, CZ	EUSI
C2-3.5	Job seekers	EU, CZ	ISSP (EUSI)
C2-3.6	Labour reserve rate	EU, CZ	Eurostat (LFS)
C3-1.1	Labour productivity (static)	OECD	OECD
C3-1.2	Labour productivity growth	OECD	ESA95
C3-2.1	Unit labour costs (static)	World	ILO KILM
C3-2.2	Unit labour costs growth	World	ILO KILM

### Estonia

No.	Name of indicator	Countries	Main Source
<b>A – Skills</b>			
A2-1.1	Educational attainment (LLL <sub>1</sub> )	EU, EE	Eurostat (LFS)
A1-2.1	Participation rate in education and training	EE	SOE (LFS, not readily available)
A1-2.2*	Intensity rate of education and training	EE	SOE (LFS, not readily available)
A2-1.2	ICT Intensity of graduate output	EU, EE	2002 European Innovation Scoreboard
A1-2.3	Average duration of job-related training (per person trained/per person employed)	EE	SOE (Adult Continuing Training Survey)
A1-2.5	Employer-provided or –supported education and training offers	EE	SOE (Adult Continuing Training Survey)
A1-2.6	Vocational education and training	EE	SOE (Adult Continuing Training Survey)
A1-2.7	Vocational education and training paid for by employer	EE	SOE (Adult Continuing Training Survey)

No.	Name of indicator	Countries	Main Source
A1-2.8	Vocational education and training to improve skills and job prospects	EE	SOE (Adult Continuing Training Survey)
A1-2.9*	Job-related training on the initiative of the employer – Companies offering training	EE	CVTS
A1-2.10*	Job-related training on the initiative of the employer – Access rate and intensity	EE	CVTS
A1-2.12	Spending by enterprises on training	EE	CVTS
A1-3.5	Public Internet Access Points (PIAPs)	EE	Estonian Informatics Centre
A1-3.6	Libraries offering Internet access to the public	EE	Statistical Office of Estonia
A1-3.8*	Work places equipped with PC	EE	Estonian Informatics Centre
A1-3.9*	Work places linked to the Internet	EE	Estonian Informatics Centre
A1-3.10*	PC access at home	EE	E-track survey by Emor Ltd
A1-3.11*	Use of PC – anywhere	EE	E-track survey by Emor Ltd
A1-3.12*	Use of e-mail, and purpose of use	EE	E-track survey by Emor Ltd
A2-2.3	Computer training for job	EE	SOE (Adult Continuing Training Survey)
A2-2.5	European Computer Driving Licence (ECDL)	EE	Estonian Information Technology Society
<b>B – Work organisation</b>			
B1-1.1	Use of computer for work	EE	Working Life Barometer
B1-1.2*	Use of IT working tools	EE	Working Life Barometer
B1-2.4	Cooperation between innovating firms	EE, compatible with EU (CIS)	Innovation Survey
B1-3.1*	Management responsibility	EE	Living Conditions Survey
B1-4.1	Participative organisations	EE	Working Conditions Survey, Working Life Barometer
B1-4.2	Job autonomy	EE	Working Life Barometer
B2-1.1	Voluntary part-time work	EE	Eurostat (LFS)
B2-1.2*	Working time preferences	EE	LFS
B2-1.3	Temporal autonomy	EE	LFS
B2-2.1	Involuntary part-time work	EE	LFS
B2-2.2	Irregular working times	EE	LFS
B2-2.3	Shiftwork	EE	LFS, Living conditions Survey
B2-2.4	Working long hours	EE	LFS
B3-1.1*	Telework	EE	Working Life Barometer, Survey "Impact of Information technology, telecommunication and telework use on employment"
B3-1.7	Commuting time to work	EE	LFS
B3-1.8	Work at home	EE	LFS

No.	Name of indicator	Countries	Main Source
B3-1.11	Establishments practising telework	EE	Survey "Impact of Info-technology, telecommunication and telework use on employment"
B3-1.12	Establishments interested in telework (supply side)	EE	Survey "Impact of Info-technology, telecommunication and telework use on employment"
B3-1.15*	Interest in centre-based telework (supply side)	EE	Survey "Impact of Info-technology, telecommunication and telework use on employment"
B4-1.1	Adjusted rate of atypical employment	EE	SOE (LFS)
B4-2.1	Rate of self-employment	EE	LFS
B4-2.2	Adjusted rate of self-employment	EE	LFS
B4-2.3	Flows into self-employment	EE	LFS
B4-2.4*	Attitude towards self-employment	EE	Working Life Barometer
B4-4.1	Temporary/fixed-term work contracts	EE	LFS
B4-4.2	Job tenure	EE	LFS
B4-4.3	Job changes	EE	LFS
B4-4.4	Stability of self-employment	EE	LFS
B4-5.1*	Workers with performance-related pay	EE	Working Life Barometer
<b>C – Structure and outcomes of employment</b>			
C1-1.1	Monthly earnings	EE	Statistical Office of Estonia
C1-1.2	Hourly wages	EE	Survey "Hourly Wages"
C1-2.2	Job satisfaction	EE, LV, LT	Working Life Barometer
C1-2.7	Individual perception of job security	EE, LV, LT	Working Life Barometer
C1-2.9	Subjective assessment of labour market opportunities	EE, LV, LT	Working Life Barometer
C1-2.10	Discouraged workers	EE	LFS
C1-2.11*	Occupational diseases	EE	Ministry of Social Affairs
C1-2.12	Job-related health complaints	EE	LFS
C2-1.1	Total employment rate	EE	LFS
C2-1.2	Total employment rate (full-time equivalents)	EE	LFS
C2-1.3	Employment rate of women	EE	LFS
C2-1.4	Employment rate of older people	EE	LFS
C2-1.5*	Absolute employment gap	EE	LFS
C2-1.6	Employment impact of parenthood	EE	LFS
C2-1.7	Employment rates of mothers with child(ren) aged under 6	EE	LFS
C2-1.8	Employment rate of lone-parents with child(ren) aged under 6	EE	LFS
C2-2.2	Share and growth of employment in the Information Society, high-tech and knowledge-intensive sectors	EE	2002 Innovation European Scoreboard
C2-2.3	Rate of employment in SMEs	EE	LFS, Ministry of Economic Affairs

No.	Name of indicator	Countries	Main Source
			and Communication
C2-2.4	Employment in very small and small enterprises	EE	LFS
C2-2.6	Rate and share of employment in services	EE	LFS
C2-2.7*	Index of gender segregation in sectors	EE	LFS
C2-2.8*	Index of gender segregation in occupations	EE	LFS
C2-3.1	Total unemployment rate	EE	LFS
C2-3.2	Time-related underemployment	EE	LFS
C3-1.1	Labour productivity (static)	EE	SOE
C3-1.2	Labour productivity growth	EU, NAS	Employment in Europe 2002
C3-2.1	Unit labour costs (static)	World	ILO KILM
C3-2.2	Unit labour costs growth	World	ILO KILM

### Hungary

No.	Name of indicator	Countries	Main Source
<b>A – Skills</b>			
-	Number of students in university and college level education by International Standard Classification of Education by fields of training	HU	Statistical Yearbook of Hungary
-	Number of enrolment in vocational training outside the educational system by fields of education	HU	Statistical Yearbook of Hungary
<b>B – Work organisation</b>			
B1-4.5	Independence at work	CZ, HU, EU15	ISSP (EUSI)
B2-2.1	Involuntary part-time work	HU	LFS
B2-2.2	Irregular working times	HU	LFS
B2-2.3	Shiftwork	HU	LFS Supplementary Survey (Eurostat categories are used in the survey), 1998; 2000
B2-2.4	Working long hours	HU	LFS
B3-1.7	Commuting time to work	HU	Household Panel Survey; 1992-1997(Social Research Institute); Time Use Survey, HCSO, 1986/1987; 1999/2000
B3-1.8	Work at home	HU	LFS
B3-2.3*	"eWork" within the organisation (EMERGENCE definition)	EU, HU, PL, CZ	EMERGENCE
B3-2.4*	Outsourced "eWork" (EMERGENCE definition)	EU, HU, PL, CZ	EMERGENCE
B3-2.5*	Supply of outsourced "eWork" services (EMERGENCE definition)	EU, HU, PL, CZ	EMERGENCE
B4-1.1	Adjusted rate of atypical employment	HU	LFS (not readily available)
B4-2.1	Rate of self-employment	HU	LFS
B4-4.1	Temporary/fixed-term work contracts	HU	LFS
B4-4.2	Job tenure	HU	OECD
B4-4.3	Job changes	HU	LFS Supplementary Survey
<b>C – Structure and outcomes of employment</b>			

No.	Name of indicator	Countries	Main Source
C1-1.1	Monthly earnings	HU	HCSO Institution-based labour statistics
C1-1.3	Perceived high income	HU	ISSP 1989; 1997
<b>C1-2 Immaterial benefits</b>			
C1-2.1	Life satisfaction of workers	CZ, HU, EU15	ISSP
C1-2.2 CZ	Job satisfaction	CZ, HU, EU15	ISSP
C1-2.3	Satisfaction with job characteristics	CZ, HU, EU15	ISSP
C1-2.5	Good job content	CZ, HU, EU15	ISSP
C1-2.1	Life satisfaction of workers	CZ, HU, EU15	ISSP
C1-2.7	Individual perception of job security	CZ, HU, EU15	ISSP
C1-2.9	Subjective assessment of labour market opportunities	CZ, HU, EU15	ISSP
C1-2.14	Hard work	CZ, HU, EU15	ISSP
C1-2.2	Job satisfaction	HU	ISSP 1989; 1997
C1-2.3	Satisfaction with job characteristics	HU	ISSP 1989; 1997
C1-2.7	Individual perception of job security	HU	ISSP 1989; 1997
C1-2.9	Subjective assessment of labour market opportunities	HU	ISSP 1989; 1997
C1-2.10	Discouraged workers	HU	LFS
C2-1.1	Total employment rate	HU	LFS/Eurostat
C2-1.2	Total employment rate (full-time equivalents)	HU	LFS/Eurostat
C2-1.3	Employment rate of women	HU	LFS/Eurostat
C2-1.4	Employment rate of older people	HU	LFS/Eurostat
C2-2.6	Rate and share of employment in services	HU	LFS/Eurostat; LFS HCSO
C2-3.1	Total unemployment rate	HU	LFS
C3-1.2	Labour productivity growth	EU, NAS	Employment in Europe 2002
C3-2.1	Unit labour costs (static)	World	ILO KILM
C3-2.2	Unit labour costs growth	World	ILO KILM

### Latvia

No.	Name of indicator	Countries	Main Source
<b>A – Skills</b>			
C1-1	Number of science & technology students in the national education system	LV	Ministry of Education 2002 (UN)
C1-2	Number of places in ICT related third level education	LV	Ministry of Education 2002 (UN)
C1-3	Training enterprises and business companies	LV	SYL2
C1-8*	Place of computer skills acquisition	LV	<a href="http://www.cvonline.lv">www.cvonline.lv</a>
C1-9	Public Internet Access Points (PIAPs)	LV (according to eEurope+)	Latvian National Library
C1-10	Libraries offering Internet access to the public	LV (according to eEurope+)	Latvian National Library
C1-11	Enterprises providing internet services	LV	ISPO; Latvian internet association ( <a href="http://www.lia.lv">www.lia.lv</a> )
C1-12	Educational attainment (LLL <sub>1</sub> )	LV	Ministry of Education and Science
D6-3	Training enterprises and business companies	LV	SYL2
D6-4	Training methodologies in adult's education	LV	SYL2
D6-5.1	Adult's education	LV	SYL2
D6-5.2	Adult's education curricula	LV	SYL2

No.	Name of indicator	Countries	Main Source
D6-5.3	Adult's computer training	LV	SYL2
D6-6	Educational attainment conducive for ICT / IS participating skills	LV	SYL2
C2-1	Number of employees that at their work place regularly use a computer with internet connection	LV	SYL2
<b>B – Work organisation</b>			
<b>C – Structure and outcomes of employment</b>			
C1-2.2	Job satisfaction	EE, LV, LT	Working Life Barometer
C1-2.7	Individual perception of job security	EE, LV, LT	Working Life Barometer
C1-2.9	Subjective assessment of labour market opportunities	EE, LV, LT	Working Life Barometer
C2-1.1	Total employment rate	World	ILO
C2-1.2	Total employment rate (full-time equivalents)	World	ILO
C2-1.3	Employment rate of women	World	ILO
C2-1.4	Employment rate of older people	World	ILO
C3-1	Economically active population	LV	SYL2
C3-2	Employed population by education qualification	LV	SYL2
C3-3	Total employment rate	LV	SYL2
C3-4	Rates of economic activity, employment and job-seekers	LV	SYL2
C3-5	Employment rate of women	LV	SYL2
C3-1.2	Labour productivity growth	EU, NAS	Employment in Europe 2002
C3-2.1	Unit labour costs (static)	World	ILO KILM
C3-2.2	Unit labour costs growth	World	ILO KILM

### Lithuania

No.	Name of indicator	Countries	Main Source
<b>A – Skills</b>			
A5-1.8	Life-long learning	LT	SL (si)
A5-2.4	Science and technology graduates	LT	SL (si)
A5-3.1	Percentage of workforce with basic IT training	LT (EU LFS methodology)	SL (E+)
<b>B – Work organisation</b>			
C2-1	Number of employees that at their work place regularly use a computer with internet connection	LT	Information Society Development in Lithuania
<b>C – Structure and outcomes of employment</b>			
C1-2.2	Job satisfaction	EE, LV, LT	Working Life Barometer
C1-2.7	Individual perception of job security	EE, LV, LT	Working Life Barometer
C1-2.9	Subjective assessment of labour market opportunities	EE, LV, LT	Working Life Barometer
C2-1.1	Total employment rate	World	ILO
C2-1.2	Total employment rate (full-time equivalents)	World	ILO
C2-1.3	Employment rate of women	World	ILO
C2-1.4	Employment rate of older people	World	ILO
A5-1.1	Number of employees (total and by gender)	LT	SL
A5-1.2	Employment growth	LT	SL (si)
A5-1.3	Unit labour cost growth	LT	SL (si)



No.	Name of indicator	Countries	Main Source
A5-1.6	Gender pay gap	LT	SL (si)
A5-1.7	Tax rate on low-wage earners	LT	SL (si)
A5-1.9	Early school leavers not in further education and training	LT	SL (si)
A5-1.10	Accidents at work	LT	SL (si)
A5-1.11	Unemployment rate (total and by gender)	LT	SL (si)
A5-1.12	Population in jobless households	LT	SL (si)
C3-1.2	Labour productivity growth	EU, NAS	Employment in Europe 2002
C3-2.1	Unit labour costs (static)	World	ILO KILM
C3-2.2	Unit labour costs growth	World	ILO KILM

### Poland

No.	Name of indicator	Countries	Main Source
<b>A – Skills</b>			
A2-3.1	Literacy skills	Various	IALS (OECD)
<b>B – Work organisation</b>			
A1-3	Use of telework in mining, manufacturing and utilities enterprises employing more than 49 persons	PL (Eurostat methodological recommendations)	GUS, Survey on innovation in industry
B3-2.3*	"eWork" within the organisation	EU, HU, PL, CZ	EMERGENCE
B3-2.4*	Outsourced "eWork"	EU, HU, PL, CZ	EMERGENCE
B3-2.5*	Supply of outsourced "eWork" services	EU, HU, PL, CZ	EMERGENCE
<b>C – Structure and outcomes of employment</b>			
B1-1	Economic active persons	PL	GUS
B1-2	Economically inactive persons	PL	GUS
B1-3	Activity rate	PL	GUS
B1-4	Employment rate	PL	GUS
B1-5	Number of employed persons (by ownerships sectors, sectors, type of agreement, gender)	PL	GUS
B1-6	Registered unemployment rate (%)	PL	GUS
B1-7	Persons working in hazardous conditions	PL	GUS
C2-3.1	Total unemployment rate	World	ILO
C3-1.2	Labour productivity growth	EU, NAS	Employment in Europe 2002
C3-2.1	Unit labour costs (static)	World	ILO KILM
C3-2.2	Unit labour costs growth	World	ILO KILM

### Romania

No.	Name of indicator	Countries	Main Source
<b>A – Skills</b>			
A1-1.2	Number of graduates in ICT related third level education	RO	Ministry of Education and Employment Agency reports
A1-2.1	Number of graduates of training courses	RO	Employment Agency reports
A1-2.2	Number of job-related training (per person trained/per person employed)	RO	Employment Agency reports
A1-2.3	ICT training courses in national system	RO	Employment

No.	Name of indicator	Countries	Main Source
			Agency reports
A1-2.4	Employer-provided or –supported education and training offers with methodological support of government institutions	RO	Employment Agency reports
A1-2.5	Vocational education and training	RO	Employment Agency reports
A1-2.6	Vocational education and training paid for by employer	RO	Employment Agency reports
A1-2.7	Vocational education and training to improve skills and job prospects	RO	Employment Agency reports
A1-2.8	Job-related training on the initiative of the employer – Companies offering training-Pre lay off situations	RO	Employment Agency reports
A1-2.9	Distance employment Agency (for computer training)	RO	Ministry of Education and Employment Agency reports
A1-3.2	Organisation of computer training for current job	RO	Employment Agency
A1-3.3	Public Internet Access Points (PIAPs)	RO	Ministry of Telecommunications reports
A1-3.4	Number of Internet users	RO	Ministry of Telecommunications reports
A2-1.1	Educational attainment	RO	Ministry of Education
A2-1.2	ICT Intensity of graduate output	RO	Ministry of Education and Employment Agency and employment Agency reports
A2-1.3	Number of graduates from ICT related third level education	RO	Ministry of Education and Employment Agency
A2-2.1	Computer training qualifications	RO	Ministry of Education and Employment Agency reports
A2-2.2	Computer training for job	RO	Employment Agency reports
A2-3.1	Literacy skills	RO	National Direction of Statistics, Ministry of Education and Employment
A3-1.1	Perceived suitability of formal training and education for present type of work (SWET)	RO	Employment Agency
<b>B1 – Work organisation</b>			
B1-1.1	Use of computer for work	RO	Ministry of Telecommunications
B1-2.1	Cooperation between innovating firms	RO	Ministry of Industries, Chamber of Commerce, Ministry of Development and Prognosis
B3-1.1	Number of persons with atypical work contract	RO	Ministry of Work and Social Solidarity
B4-2.1	Rate of self-employment	RO	Ministry of Work and Social Solidarity

No.	Name of indicator	Countries	Main Source
B3-3.1	Employment Protection Legislation	RO	Ministry of Work and Social Solidarity, Employment Agency
B3-3.2	Job mobility of work force	RO	Ministry of Work and Social Solidarity, Employment Agency
B3-3.3	Temporary job in benefit of community	RO	Ministry of Work and Social Solidarity, Employment Agency
B3-3.4	Employment of people over 45 years	RO	Ministry of Work and Social Solidarity, Employment Agency
B3-3.5	Employment of graduates of National Education System on account of governmental subvention	RO	Ministry of Work and Social Solidarity, Employment Agency
B3-3.6	Employment of disabled persons on account of governmental subvention	RO	Ministry of Work and Social Solidarity, Employment Agency
B3-3.7	Number of credits with advantageous conditions for SME's in order to create jobs	RO	Ministry of Work and Social Solidarity, Employment Agency
B3-3.8	Number of assistances for self-employment status	RO	Ministry of Work and Social Solidarity, Employment Agency
B3-3.9	Solidarity contracts	RO	Ministry of Work and Social Solidarity, Employment Agency
B3-3.10	Use of the Internet for job-seeking	RO	Employment Agency
B4-4.1	Temporary/fixed-term work contracts	RO	Ministry of Work and Social Solidarity
<b>C – Structure and outcomes of employment</b>			
C1-1.1	Monthly Earnings	RO	Employment Agency
C1-2.1	Life satisfaction of workers	RO	IMAS
C1-2.2	Job satisfaction	RO	IMAS
C1-2.3	Discouraged workers	RO	Employment Agency
C1-2.4	Job related health complains	RO	Work Medicine reports
C2-1.1	Total employment rate	World	ILO
C2-1.2	Total employment rate (full-time equivalents)	World	ILO
C2-1.3	Employment rate of women	World	ILO
C2-1.4	Employment rate of older people	World	ILO
C2-2.1	Employment in the ICT sector	RO	Ministry of Telecommunications
C2-2.2	Share and growth of employment in the Information Society, high-tech and knowledge intensive sectors	RO	Ministry of Industries, Ministry of Telecommunications
C2-2.3	Number of employment in SMEs	RO	Ministry of SMEs reports

No.	Name of indicator	Countries	Main Source
C2-3.1	Total unemployment rate	RO	National Direction of Statistics, Employment Agency
C2-3.2	Women underemployment rate	RO	National Direction of Statistics, Employment Agency
C2-3.5	Job seekers	RO	Employment Agency
C2-3.6	Labour resources	RO	National Direction of Statistics
C3-1.2	Labour productivity growth	EU, NAS	Employment in Europe 2002
C3-2.1	Unit labour costs (static)	World	ILO KILM
C3-2.2	Unit labour costs growth	World	ILO KILM

### Slovak Republic

No.	Name of indicator	Countries	Main Source
<b>A – Skills</b>			
	Number of places in ICT related third level education	SK	Ministry of education
A1-2.1	Participation rate in education and training	SK	SO SR, LFS (from 2002)
A1-2.3	Average duration of job-related (per person trainer/per person employed)	SK	SO SR LFS
A1-2.6	Vocational education and training	SK	SO SR, LFS (from 2002)
A1-2.8	Vocational education and training to improve skills and job prospects	SK	SO SR, LFS (from 2002)
A1-3.5	Public Internet Access Points	SK	Transport and telecomm. Ministry
A1-3.6	Rate of Internet coverage in schools	SK	Ministry of Educ.
A1-3.7	Libraries offering Internet access to the public	SK	Ministry of Cultural
A1-3.8	Staff access to ICT	SK	LFS IT-stat module
A2-1.1	Educational attainment (LLL1)	SK	SO SR, LFS (2003)
<b>B – Work organisation</b>			
B2-1.1	Voluntary part-time work	SK	SO SR, LFS
B2-2.1	Involuntary part-time work	SK	SO SR, LFS
B2-2.2	Irregular working times	SK	SO SR, LFS
B2-2.3	Shiftwork	SK	SO SR, LFS
B2-2.4	Working long hours	SK	SO SR, LFS
B3-1.8	Work at home	SK	SO SR, LFS
B4-1.1	Adjusted rate of atypical employment	SK	SO SR, LFS
B4-2.1	Rate of self-employment	SK	SO SR, LFS
B4-2.2	Adjusted rate of self-employment	SK	SO SR, LFS
B4-4.1	Temporary/fixed-term work contracts	SK	SO SR, LFS
<b>C – Structure and outcomes of employment</b>			
C1-1.1	Monthly earnings	SK	SO SR
C1-1.2	Hourly wages	SK	SO SR
C1-2.10	Discouraged workers	SK	SO SR, LFS
C2-1.1	Total employment rate	SK	SO SR, LFS
C2-1.3	Employment rate of women	SK	SO SR, LFS
C2-1.4	Employment rate of older people	SK	SO SR, LFS

No.	Name of indicator	Countries	Main Source
C2-1.5	Absolute employment gap	SK	SO SR, LFS
C2-2.3	Rate of employment in SMEs	SK	SO SR
C2-2.6	Rate and share of employment in services	SK	SO SR, LFS
C2-3.1	Total unemployment rate	SK	SO SR, LFS
C2-3.2	Time-related underemployment	SK	SO SR, LFS
C2-3.6	Labour reserve rate	SK	Eurostat, LFS
C3-1.1	Labour productivity (static)	SK	SO SR
C3-1.2	Labour productivity growth	SK	SO SR
C3-2.1	Unit labour costs (static)	SK	SO SR
C3-2.2	Unit labour costs growth	SK	SO SR

### Slovenia

No.	Name of indicator	Countries	Main Source
<b>A – Skills</b>			
A1-1.2	Number of places in ICT related third level education	SI	MIS
A1-2.1	Participation rate in education and training	SI	LFS
A1-2.3	Average duration of job-related training (per person trained/per person employed)	SI	LFS
A1-2.6	Vocational education and training	SI	LFS
A1-2.8	Vocational education and training to improve skills and job prospects	SI	LFS
A1-3.2	Rate of Internet coverage in schools	SI	RIS
A1-3.4	Organisation of computer training for current job	SI	RIS
A1-3.5	Public Internet Access Points (PIAPs)	SI	MIS
A1-3.6	Libraries offering Internet access to the public	SI	MIS
A1-3.7	Staff access to ICTs	SI	RIS
A1-3.8	Work places equipped with PC	SI	RIS
A1-3.9	Work places linked to the Internet	SI	RIS
A1-3.10	PC access at home	SI	RIS
A1-3.11	Use of PC - anywhere	SI	RIS
A1-3.12	Use of e-mail, and purpose of use	SI	RIS
A2-1.1	Educational attainment (LLL <sub>1</sub> )	SI	LFS
A2-1.2	Students graduating from universities, university members and free-standing higher education institutions by type of study and sex (continued)	SI	SORS
A2-2.3	Computer training for job	SI	RIS
A2-2.4	Percentage of workforce with (at least) basic IT training	SI	RIS
A2-3.1	Literacy skills	OECD	SIAE
A3-2.1	Perceived suitability of formal training and education for present type of work	SI	RIS
A3-2.2	Perceived contribution of formal training and education to managing present work	SI	RIS
<b>B – Work organisation</b>			
B1-1.1	Use of computer for work	SI	RIS
B1-1.2	Use of IT working tools	SI	RIS
B1-2.1	Learning organisation	SI	MESS
B1-2.3	Use of group work	SI	RIS
B1-2.5	Effects of ICTs on the way people work	SI	RIS
B1-3.2	Occupational changes	SI	LFS
B2-1.1	Voluntary part-time work	SI	LFS
B2-1.2	Working time preferences	SI	LFS 2001 (AD HOC)

No.	Name of indicator	Countries	Main Source
B2-1.3	Temporal autonomy	SI	LFS 2001 (AD HOC)
B2-2.1	Involuntary part-time work	SI	LFS
B2-2.2	Irregular working times	SI	LFS 2001 (AD HOC)
B2-2.3	Shiftwork	SI	LFS
B2-2.4	Working long hours	SI	LFS
B3-1.1	Telework	SI	RIS
B3-1.2	Use of remote access by companies	SI	RIS
B3-1.3	Interest in telework (demand side)	SI	RIS
B3-1.4	Technical telework potential	SI	RIS
B3-1.5	Perceived barriers to telework implementation/extension	SI	RIS
B3-1.7	Commuting time to work	SI	TUS
B3-1.8	Work at home	SI	LFS, RIS
B3-1.9	Teleworking from home	SI	LFS, RIS
B3-1.10	Intensity of telework from home	SI	LFS, RIS
B3-1.11	Establishments practising telework	SI	RIS
B3-1.12	Establishments interested in telework (supply side)	SI	RIS
B3-1.13	Self-employed teleworkers in SOHOs	SI	RIS
B3-1.17	Mobile telework	SI	RIS
B4-1.1	Adjusted rate of atypical employment	SI	LFS
B4-2.1	Rate of self-employment	SI	LFS
B4-2.2	Adjusted rate of self-employment	SI	LFS
B4-3.2	Job mobility of highly qualified workers	SI	LFS
B4-4.1	Temporary/fixed-term work contracts	SI	LFS
B4-4.2	Job tenure	SI	LFS (base data)
B4-4.3	Job changes	SI	LFS
B4-4.4	Stability of self-employment	SI	LFS (base data)
<b>C – Structure and outcomes of employment</b>			
C1-1.1	Monthly earnings	SI	LCS
C1-1.2	Hourly wages	SI	LCS
C1-1.3	Perceived material status of the household	SI	SJM
C1-2.1	Life satisfaction of workers	SI	SJM
C1-2.2	Job satisfaction	SI	SJM
C1-2.3	Influence on job characteristics	SI	SJM
C1-2.7	Individual perception of job security	SI	SJM
C1-2.9	Subjective assessment of labour market opportunities	SI	SJM
C1-2.10	Discouraged workers	SI	LFS
C1-2.12	Job-related health complaints	SI	LFS 2002 (AD HOC)
C1-2.13	Absence due to job-related health complaints	SI	LFS 2002 (AD HOC)
C2-1.4	Employment rate of older people	SI	LFS
C2-1.6	Employment impact of parenthood	SI	LFS
C2-1.7	Employment rates of mothers with child(ren) aged under 6	SI	LFS
C2-1.8	Employment rate of lone-parents with child(ren) aged under 6	SI	LFS
C2-2.3	Rate of employment in SMEs	SI	LFS
C2-2.4	Employment in very small and small enterprises	SI	LFS
C2-2.6	Rate and share of employment in services	SI	LFS
C2-3.1	Total unemployment rate	World	ILO
C2-3.1	Total unemployment rate	SI	LFS
C2-3.2	Time-related underemployment	SI	LFS

<b>No.</b>	<b>Name of indicator</b>	<b>Countries</b>	<b>Main Source</b>
C2-3.4	Re-employment rate	SI	LFS
C2-3.5	Job seekers	SI	LFS
C3-1.1	Labour productivity (static)	SI	NA
C3-1.2	Labour productivity growth	EU, NAS	Employment in Europe 2002
C3-2.1	Unit labour costs (static)	World	ILO KILM
C3-2.2	Unit labour costs growth	World	ILO KILM
C3-2.2	Unit labour costs growth	EU, NAS	Employment in Europe 2002

## 4 Social Inclusion

### 4.1 Key Policy Papers on Social Inclusion in the Information Society in the NAS

Title of document	Author	Year	Type of document
<b>Key Supranational policy documents relevant to social inclusion</b>			
European Social Policy – Way Forward for the Union	European Commission	1994	White Paper
eEurope+ 2003. A Cooperative Effort to Implement the Information Society in Europe	European Commission and Candidate Countries	June 2001	Action Plan
eEurope+ 2003. Progress Report	European Commission and Candidate Countries	June 2002	Report
Ministerial Conclusions	European Ministerial Conference, Ljubljana	June 2002	Statement
<b>Key documents relevant to social inclusion from Bulgaria</b>			
Order for Protection, Rehabilitation, and Social Integration for Disabled People	Parliament	1995	Law
Strategy for Information society development	Ministry of Economy	1999	Action plan
Order for Accessible Environment in Sofia	Council of the Local Authority of Sofia	1990	Law
Order for the requirements of the environment in populated areas and assurance of access for disabled people	The Ministry of Regional Development and Public Utilities	2003	Law - to be accepted in second half of 2003
<b>Key documents relevant to social inclusion from the Czech Republic</b>			
National Employment Plan	Ministry of Labour and Social Affairs	1999	Strategy
Strategy of the State Information Politics in Education	Ministry of Education, Youth and Sports	2001	Strategy
<b>Key documents relevant to social inclusion from Estonia</b>			
Prevention of Social Exclusion of Disabled People	Ministry of Social Affairs	1999	Report
IST R&D and innovation in Estonia	Estonian eVikings	2000	Document
Research and Development in Estonia 2000-2001	Research and Development Council	2001	Report
Estonian National Development Plan – Single Programming Document 2003-2006 (draft)	Ministry of Finance	2002	Strategy
Strategy of Life-Long Learning (draft)	Ministry of Education and Research	2002	Strategy
<b>Key documents relevant to social inclusion from Hungary</b>			
National Employment Promotion Strategy and Program	Ministry of Economic Affairs	2000	Action Plan
<b>Key documents relevant to social inclusion from Latvia</b>			
Conception “Equal opportunities for all”	Ministry of Welfare	1998	Conception
Conceptual guidelines of socio-economic program “eLatvia”	Ministry of Economics	2001	Action Plan
Investigation results of social policy of Ministry of Welfare in 2001	Ministry of Welfare	2001	Report
European Interim Agreement “On Social Security Other Than Schemes For Old Age, Invalidity And Survivors And Protocol Thereto”	Parliament (Saeima)	2001	Law
Law on state social benefits	Parliament (Saeima)	2002	Law



Title of document	Author	Year	Type of document
Law on support of unemployed persons and jobseekers	Parliament (Saeima)	2002	Law
<b>Key documents relevant to social inclusion from Lithuania</b>			
Poverty Reduction Strategy	National Social Committee	2000	Report
Law on Electronic Signature	Parliament	2000	Law
Law on the Right to Receive Information from State and Municipal Authorities	Parliament	2000	Law
Lithuania's White Book on Science and Technology	Department of Science and Higher Education of the Ministry of Science and Education	2001	White book
Strategic Plan of Lithuanian Information Society Development	Government	2001	Documentation
Conceptual framework of the national information society development of Lithuania	Government	2001	Resolution
<b>Key documents relevant to social inclusion from Poland</b>			
White Book	Office of the Council of Ministers, State committee for Scientific Research	1995	White book
Strategy of IT Development in Poland (1)	Polish IT Society	April 1995	Report
Strategy of IT Development in Poland (2)	Polish IT Society	June 1999	Report
Act of RP's government concerned building bases of information society in Poland	Polish Government	July 2000	Law
Aims and Directions of the Information Society development in Poland	State Committee for Scientific Research	Nov 2000	Strategy
Poland 2025 Long-term Strategy of Lasting and Sustainable Development	State Committee for Scientific Research	July 2000	Strategy
National Program of preparation for membership in EU	State Committee for Scientific Research	June 2001	National Program
ePolska- Action plan: 2001-2006	Ministry of Economy	Sep 2001	Action Plan
Reports on the action plan realisations	State Committee for Scientific Research	2001, 2002	Report
ePolska-2006: Active plan for IS development in Poland	Ministry of Infrastructure	2002	Action Plan
Project of Act of law about IT implementation of public power activity	Polish Parliament	Nov 2002	Law project
„Gateway of Poland” – initial conception of project	State Committee for Scientific Research	Dec 2002	Project
Senate's resolution about information society	Senate of Poland	Jan 2003	Resolution
<b>Key documents relevant to social inclusion from Romania</b>			
National Action Plan for Employment – 2001-2004	Work and Social Solidarity Ministry	2000	Action Plan
White paper of PSD governance	Government	2001	Report
Contract Commitment Employment Agency-Work and Social Solidarity Ministry (Annual since 2000)	Work and Social Solidarity Ministry-Employment Agency	2001	Report
National Active Measures Program for Employment - 2001-2004	Employment Agency	2001	Action Plan
Government Program: Pillar IV "Fighting on Poverty" - 2001-2004	Work and Social Solidarity Ministry	2001	Action Plan
<b>Key documents relevant to social inclusion from Slovakia</b>			
Health information system	Ministry of Health	1997	Evaluation
Act N. 540/2001 on State Statistics	Government	2001	Act

Title of document	Author	Year	Type of document
JIM-Joint Inclusion Memorandum	Government	2003	Strategy
NAP/inclusion	Government	2004	Action Plan
<b>Key documents relevant to social inclusion from Slovenia</b>			
eEurope+ implementation activities in Slovenia	Ministry of Information Society	2001	Other
National Development Plan (NRP RS 2001-2006)	Government	2001	Action Plan
The Strategy of Social Inclusion	Ministry of Labour, Family and Social Affairs	2000	Strategy
The Strategy of Economic Development in RS 2001-2006 (SGRS 2001-2006)	Government (UMAR)	2001	Strategy
The Implementation of the Strategy of Social Inclusion	Ministry of Labour, Family and Social Affairs	2002	Report
The Strategy of Republic of Slovenia in Information Society	Ministry of Information Society	2002	Strategy

#### 4.2 NAS Data Sources on Social Inclusion in the Information Society

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
<b>Key supranational data sources on Social Inclusion in the Information Society</b>					
Central European Opinion Research Group (CEORG)	Computers, Internet, Mobile Phones: Household Equipment and Users in Some Countries of Central and Eastern Europe	Comparative research (survey) Areas: computers usage, Internet usage, mobile phone usage, Social posture in case of fast development of Internet	?	PL, CZK, HUF, ROL, RUS	May 2002
European Computer Driving License (ECDL)	Not published officially	statistics of certified persons	www.ecdl.com	CR + others	continuously
European Survey of Information Society (ESIS II) – Extension to Central and Eastern European Countries and Mediterranean Area	ESIS Knowledge Base -	The inventory was built with information collected via a standardised questionnaire which was translated in all local languages. The questionnaire is available on the website to be filled in by project promoters. <sup>28</sup>	ISPO	CEEC and Mediterranean countries	updated every three months
European System of Social Indicators (EUSI)	Berger-Schmitt 2001	presents harmonised data from various sources	ZUMA, EuReporting Project Consortium	EU15, CH, CZ, HU, N, PL, USA, JAP	various
International Adult Literacy Survey	OECD 1995lit; 1997lit; 2000lit.	GPS (2000 to 8000 adults aged 16-65 per country)	OECD, Statistics Canada	1994: CD, D, IRL, NL, PL, S, CH (part), USA. 1996: AUS, B, IRL, UK, Z. 1998: CZ, DK, FIN, HU, I, N, SI, CH (rest).	1994, 1996, 1998

<sup>28</sup> Topics: Telecommunications basic indicators, Regulatory developments, Alternative networks, IS Promotional activities, IS Key persons contacts and organisations, www sites indicators, statistical analysis of the ESIS II database, Estimation of Information Society projects

Structural Indicators	Various EC publications	Various sources	Eurostat	EU, NAS	Annually
Working Life Barometer	Working Life Barometer in the Baltic Countries 1999 (Antila & Ylöstalo).	Wage earners and entrepreneurs aged 16-64. Sample: 911	Ministry of Labour (Finland), Ministry of Social Affairs (Estonia), Saar-Poll	EE, LV, LT	1996, 1998, 2002
<b>Key data sources on Social Inclusion in the Information Society from Bulgaria</b>					
<b>Key data sources on Social Inclusion in the Information Society from the Czech Republic</b>					
CSÚ	<a href="http://www.czso.cz/">http://www.czso.cz/</a>	Computer literate workforce	CSÚ	CZ	Planned
IPOS	<a href="http://www.ipos-mk.cz">www.ipos-mk.cz</a>	Statistical informations on public libraries	Informační a poradenské středisko pro místní kulturu ( <a href="http://www.ipos-mk.cz">www.ipos-mk.cz</a> )	CZ	
MICR	Private communication with Dr Hlousek, MICR	"Bobby test" on accessibility of the Internet pages	ÚVIS (currently MICR)	CZ	2002
MPSV	<a href="http://www.mpsv.cz/">http://www.mpsv.cz/</a>	People with disabilities	MPSV	CZ	Monthly
<b>Key data sources on Social Inclusion in the Information Society from Estonia</b>					
Census of Population and Housing, 2000	2000 Population and Housing Census	Population	Statistical Office of Estonia	EE	1989, 2000
E-track Survey	Information Society Indicators of Estonia <a href="http://www.eik.ee">www.eik.ee</a>	500 persons (aged 15-74) in month	Emor Ltd.	EE	2000, 2001
Household Income and Expenditure Survey	Household Living Niveau. Yearbook <a href="http://www.stat.ee">www.stat.ee</a>	Households living in Estonia - 820 households per month )	Statistical Office of Estonia	EE	Annually, since 1996
Labour Force Survey	Labour force, <a href="http://www.stat.ee">www.stat.ee</a>	Working-age residents	Statistical Office of Estonia	EE	Annually
Living Conditions Survey (NORBALT)	Living Conditions Study in Estonia 1999. Baseline Report. NORBALT II. Tartu 2000. <sup>29</sup>	Household survey, 5500 households	Tartu University, Ministry of Social Affairs of Estonia, Statistical Office of Estonia, Institute of Applied Social Research Fato (Norway)	EE	1994, 1999

<sup>29</sup> <http://www.sm.ee/gopro30/Web/gpweb.nsf/pages/indexeng.html>

Statistical Population Calculation	Population, Yearbook www.stat.ee	Population	Statistical Office of Estonia	EE	Annually
Survey on Computerization in Schools	Tiger Leap Programme www.tiigrihype.ee	Primary and secondary schools	Tiger Leap Foundation	EE	1999, 2000, 2001
Survey on Poverty Reduction in Estonia	Poverty Reduction in Estonia	All households	University of Tartu, Min.of Social Affairs of Estonia, UNDP	EE	One-off, 1999
Survey on the Estonian's Digital Divide	Estonian's Digital Divide and How to Bridge It www.oef.org.ee	People aged 16 and more	Center for Policy-studies PRAXIS, EMOR Ltd	EE	Once-off, 2002
Survey on Using the Internet in Rehabilitation of People with Mobility Impairments	Using the Internet in Rehabilitation of People with mobility impairments www.kakupesa.pri.ee/kakk/thesis	People with disabilities	Tallinn Technical University Kaido Kikkas	EE	Once-off, 1999
<b>Key data sources on Social Inclusion in the Information Society from Hungary</b>					
Hungarian Household Panel	Andorka Rudolf-Spéder Zsolt (1996) Szegénység (Poverty), in: Sik E.-Tóth I.Gy.(eds) Half decade. Hungarian Household Panel Working Papers 8.		Hungarian Central Statistical Office	HU	
Indicators of social integration and solidarity	Various <sup>30</sup>		Hungarian Central Statistical Office	HU	
Yearbook of Welfare Statistics	Yearbook of Welfare Statistics/2000 (2001)		Hungarian Central Statistical Office	HU	Annually
<b>Key data sources on Social Inclusion in the Information Society from Latvia</b>					
Data of Ministry of Culture	Libraries access to the internet	Electronic access to public services	Ministry of Culture	LV	2000
Ministry of Economics	Report on development of Latvia's national economy	Data on all topics characterising the development of country	Ministry of Economics	LV	2000, 2001

<sup>30</sup> For example: Utasi Ágnes (2002) A társadalmi integráció és szolidaritás jelzőszámai; Kertesi Gábor-Kézdi Gábor (1998) A cigány népesség Magyarországon (The Gipsy Population in Hungary); Spéder Zsolt (2002) A szegénység változó arcai (Changing faces of poverty); Monostori Judit (2001) Relationship between income poverty and welfare benefits; Havasi Éva (et al)(1999) A szegénység jellemzői a mai Magyarországon (Characteristics of poverty in contemporary Hungary).

Project group of LIIS management	Latvian Education Informatization System (LIIS) ( <a href="http://www.liis.lv">www.liis.lv</a> )	European youth into the digital age	Project group of LIIS management	LV	1997-2002
<b>Key data sources on Social Inclusion in the Information Society from Lithuania</b>					
eEurope+ Progress Report	Information and informatics department to the Ministry of Interior, Statistics Lithuania 2001, 2002	An overview of action undertaken by the candidate countries since the adoption of the eEurope+ Action Plan, listing indicators measuring Information society	Information and informatics department to the Ministry of Interior, Statistics Lithuania	LT	Half-annually
Information society development in Lithuania	Statistics Lithuania 2002	Overview of ICT sector development in Lithuania – includes comparisons with EU and other candidate countries	Statistics Lithuania	LT	annually
<b>Key data sources on Social Inclusion in the Information Society from Poland</b>					
Education	Statistical Yearbook of the Republic of Poland	The education of pre-school children, education for children and youth (primary, lower secondary, general secondary as well as technical and vocational secondary education), post-secondary, tertiary (university level) as well as adult education (primary, lower secondary and secondary)	GUS - Central Statistical Office	PL	annually
Labour Force Survey	Statistical Yearbook of the Republic of Poland	Persons aged 15 and more	GUS – Central Statistical Office	PL	quarterly
<b>Key data sources on Social Inclusion in the Information Society from Romania</b>					
Contract Commitment Employment Agency-Work and Social Solidarity Ministry (Annual since 2000)	Annual Reports	Employment rate, unemployment, women, persons with disabilities	Employment Agency	RO	Annually since 2000
Ministry of Work and Social Solidarity	Annual Reports	Work contracts	Ministry of Work and Social Solidarity	RO	Annually since 1998
National Direction of Statistics	Annual Reports	Labour resources	Annual Reports	RO	Annually
Romanian Ministry of Education	Annual Reports	Youngsters, training courses,	Romanian Ministry of Education	RO	Annually since 2000
<b>Key data sources on Social Inclusion in the Information Society from Slovakia</b>					

Household Budget Survey (HBS)	Income, Expenditures and Consumption of Households in the SR, Internal IT materials	Structure of income and expenditure of households Survey unit is together managing household	Statistical Office of the Slovak Republic	SK	Annually
Microcensus of households 2003	Microcensus of households 2003	Sample survey	Statistical Office of Slovak Republic	SK	annually <sup>31</sup>
IKT (MS SR) 1 – 01 Annual Report on IT in schools	Selected Indicators on Basic Data on Schools and School Establishments in the Slovak Republic	Data from modules: „Number of PCs in school”, “Teaching staff and pupils/students”, and “Additional data”	Ministry of Education of the SR	SK	Annually, data will be available from 2004
SODB 2001	Population and Housing Census 2001-Basic Data	Data on household equipment by regions and districts	Statistical Office of the Slovak Republic	SK	every 10 years
Zdp 1-01, Socp 1-01, NÚP 1-01	Selected indicators on Health Insurance Companies, the Social Insurance Agency and the National Labour Office	Data from module "Structure of intermediate consumption" and module "Acquisition of tangible and intangible fixed assets by purchase"	Statistical Office of the Slovak Republic	SK	Annually, data will be available from 1995

#### Key data sources on Social Inclusion in the Information Society from Slovenia

Digital Divide in Slovenia	Vehovar et al.	GPS	FDV	SI	2001
Educational institutions 2000/01	Vehovar et al.	Population	FDV (RIS)	SI	1998-2000
ICT Indicators for Slovenia and EU	Vehovar et al.	GPS	MIS	SI, EU	2001
ICT Literacy	Vehovar et al.	GPS	FDV (RIS)	SI	2002
Information Technologies in Households	Vehovar et al.	GPS	FDV (RIS)	SI	1996-2002
ISPs	Vehovar et al.	GPS	FDV (RIS)	SI	1996-2002
ISPs 2000/2001	Vehovar et al.	DMS	FDV (RIS)	SI	Annually
Rapid Reports - Labour Market: Labour force survey results	SORS	LFS	SORS	SI	Quarterly
Rapid Reports: Labour Market	SORS	Registered companies, enterprises, organisations	SORS	SI	1995-1998
SJM (Slovenian Public Opinion): ISSP	Toš et al.	GPS	FDV (CJMMK)	SI	annually
SJM (Sloveniana Public Opinion)	Toš et al.	Persons >17	FDV (CJMMK)	SI	Annually
Statistical Yearbook of the Republic of Slovenia 2001	SORS	GPS	SORS	SI	2001

<sup>31</sup> A sample survey starting in 2003 for collecting data for year 2002.

### 4.3 NAS Indicators on Social Inclusion in the Information Society

#### 4.3.1 Overview of selected indicators available for various countries<sup>32</sup>

Name of indicator	BG	CZ	EE	HU	LV	LT	PL	RO	SK	SI
<b>Identifying the vulnerable - Continuity vs. change</b>										
People with disabilities	-	MPSV	Social Statistics	-	SYL2	-	NIS	Work Medicine Reports	-	-
Computer literate workforce	-	CSÚ <sup>33</sup>	-	-	-	-	-	-	-	SJM
<b>Access to ICTs and accessibility</b>										
Public Internet Access Points per 1000 population	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003
Internet usage, by income	-	-	SOE	-	-	-	-	-	-	RIS
Internet usage, by location	-	-	-	-	-	-	Min. of Infrastructure	-	-	RIS
Percentage of central government websites that conform to the WAI accessibility guidelines	-	MICR (ÚVIS)	-	-	-	ISDC	Min. of Interior	-	-	-
<b>Rationale for participation in the IS</b>										
Use of the Internet for job-seeking	-	Euro- barom- eter	-	-	-	-	-	Public Employ. Agency	-	RIS

<sup>32</sup> The table contains indicators for which indicators and data are available at the time of writing (national/international sources are mentioned). This does not mean, however, that direct comparability between countries is given in each case.

<sup>33</sup> Planned; until now two types of data are available: 1) Survey on ICT usage in enterprises – 2000 2) Survey on ICT usage in households - 2002



### 4.3.2 Available indicators per country

#### Bulgaria

No.	Name of indicator	Countries	Main Source
<b>A Identifying the vulnerable - Continuity vs. change</b>			
<b>B Access to ICTs and accessibility</b>			
-	Public Internet Access Points (PIAP) per 1000 population	NAS	eEurope + 2003 Progress Report
<b>C Rationale for participation in the Information Society</b>			

#### Czech Republic

No.	Name of indicator	Countries	Main Source
<b>A Identifying the vulnerable - Continuity vs. change</b>			
-	People with disabilities	CZ	MPSV
-	Computer literate workforce	CZ	CSÚ <sup>34</sup>
A1.1.b	Rate of early-school leavers not in further education or training	CZ	ÚIV
A1.2.a	Labour market situation of the household	EU 12 (B, DK, D, EL, E, F, IRL, I, L, NL, A, P, UK), CZ	Eurostat (ECHP), CSÚ
A1.2.b	Inactive population who would like to work but think no job is available	EU, CZ	Eurostat (LFS), CSÚ
A1.2.c	Employment Rate of Older People	CZ	CSÚ - VŠPS
A1.8.a	Computer literate workforce	CZ	CSÚ
A1.8.b	Educational attainment conducive for ICT / IS participating skills	EU, CZ	Eurostat (LFS), CSÚ
<b>B Access to ICTs and accessibility</b>			
A2.1.b	Rate of Internet coverage in schools	EU, CZ	Eurostat, ÚIV
A2.2.c	Libraries offering Internet access to the public	EU, CZ	IPOS 1999
A2.4.eCZ	Percentage of central government websites that conform to the WAI guidelines at A level	EU, CZ	Eurostat, ÚVIS
A2.4.fCZ	Percentage of central government websites that conform to the WAI guidelines at AA or AAA level	EU, CZ	Eurostat, ÚVIS
-	Public Internet Access Points (PIAP) per 1000 population	NAS	eEurope + 2003 Progress Report
<b>C Rationale for participation in the Information Society</b>			
A3.6	Use of the Internet for job-seeking	EU, CZ	Eurobarometer 54.0

#### Estonia

No.	Name of indicator	Countries	Main Source
<b>A Identifying the vulnerable - Continuity vs. change</b>			

<sup>34</sup> Planned; until now two types of data are available: 1) Survey on ICT usage in enterprises – 2000 2) Survey on ICT usage in households - 2002

No.	Name of indicator	Countries	Main Source
A1.1.b	Rate of early-school leavers not in further education or training	EE	Living Condition Study in Estonia (LCSE)
A1.2.a	Labour market situation of the household	EE	SOE
A1.2.b	Inactive population who would like to work but think no job is available (Discouraged persons)	EE	SOE
A1.2.c	Employment Rate of Older People	EU, EE	SOE
A1.3.a	Household income	EE	SOE
A1.3.b	Income poverty based on the income poverty line	EE	SOE
A1.3.c	Distribution of income (S80/S20)	EE	SOE
A1.4.a	Educational level of the household	EE	SOE
A1.4.b	Population by age/age group	EE	SOE
A.1.5	People with disabilities	EE	SOE
A1.6.b	Usage of high speed access by residence	EE	ESIS
A1.7.a	Population by nationality	EE	SOE
A1.8.b	Educational attainment conducive for ICT/is participating skills	EE	SOE
A1.8.c	Percentage of individuals who can be classified as "late adopters"	EE	EMOR
<b>B Access to ICTs and accessibility</b>			
A2.1.b	Rate of Internet coverage in schools	EE	Tiger Leap
A2.1.c	Rate of Internet coverage in schools by affluence	EE	Tiger Leap
A2.1.d	Internet usage quantified, by household income levels	EE	SOE
A.2.1.e*	Internet usage quantified by different groups	EE	SOE
A2.2.a	Public Internet Access Points (PIAP)	NAS	Estonian Informatic Centre (EIK)
A2.2.b	Percentage of population living near Public Internet Access Points (PIAP)	EE	Estonian Informatic Centre (EIK)
A.2.2.c	Libraries offering Internet access to the public	EE	Estonian Informatic Centre (EIK)
<b>C Rationale for participation in the Information Society</b>			
A3.7.a	Never connected households / not connected to the Internet	EE	EMOR Ltd
A3.7.b	Likelihood of going online/accessing the Internet	EE	EMOR Ltd
A3.7.c	Individuals perception of the Internet (non users)	EE	EMOR Ltd

### Hungary

No.	Name of indicator	Countries	Main Source
<b>A Identifying the vulnerable - Continuity vs. change</b>			
-	Long-term and temporary poverty	HU	HHPS
-	Objective and subjective poverty	HU	HHPS
-	Gini, Sen, Elteto-Frigyes, Robin Hood indexes	HU	Havasi et al 1999
-	Number of friends	HU	HHPS, TARKI Omnibusz
-	Reciprocity	HU	HHPS, ISSP, HSCO
-	Anomie	HU	HHPS, TARKI Omnibusz
-	Inclusion in civic organizations	HU	ISSP, HSCO WoL
-	Family benefits	HU	YbWS/2000

No.	Name of indicator	Countries	Main Source
-	Domestic care, day care, social catering	HU	YbWS/2000
-	Day care for homelesses	HU	YbWS/2000
-	Long-term and temporary poverty	HU	HHPS
<b>B Access to ICTs and accessibility</b>			
-	Public Internet Access Points (PIAP) per 1000 population	NAS	eEurope + 2003 Progress Report
<b>C Rationale for participation in the Information Society</b>			

### Latvia

No.	Name of indicator	Countries	Main Source
<b>A Identifying the vulnerable - Continuity vs. change</b>			
D1-1.1	Resident population by major age group	LV	SYL2
D1-1.2	Resident population by ethnicity	LV	SYL2
D2-1.1	Inequality of income distribution	LV	SYL2
D2-1.2	Distribution of employees in public and private sectors by average monthly gross wages and salaries	LV	SYL2
D3-1.1	Unemployed persons by education qualification	LV	SYL2
D3-1.2	Unemployed persons by ethnicity	LV	SYL2
D3-2.1	Non-working jobseekers	LV	SYL2
D3-2.2	Jobseekers by action taken to find a job	LV	SYL2
D3-2.3	Rate of jobseekers to the economically active population by age	LV	SYL2
D4-1	Recipients of disability pensions	LV	SYL2
D4-2	Recipients of disability pensions by age	LV	SYL2
<b>B Access to ICTs and accessibility</b>			
D5-1	Rate of Internet coverage in schools	LV	LIIS project (www.liis.lv)
D5-2	Public Internet Access Points (PIAPs)	NAS	Latvian National Library
D5-3	Libraries offering Internet access to the public	LV (according to eEurope+)	Latvian National Library
<b>C Rationale for participation in the Information Society</b>			

### Lithuania

No.	Name of indicator	Countries	Main Source
<b>A Identifying the vulnerable - Continuity vs. change</b>			
A6-2.1	Risk of poverty before and after social transfers	LT	SL (si)
A6-2.2	Inequality of income distribution	LT	SL (si)
A6-2.3	Risk-of-poverty rate	LT	SL (si)
A6-2.4*	Persistent risk-of-poverty rate	LT	SL (si)
A6-2.5	Long-term unemployment	LT	SL (si)
A6-2.6	Population in jobless households	LT	SL (si)
A6-2.7	Early school leavers not in further education and training	LT	SL (si)
<b>B Access to ICTs and accessibility</b>			

No.	Name of indicator	Countries	Main Source
A8-7.1*	Percentage of central government websites that conform to the WAI accessibility guidelines at level A	LT	ISDC (E+)
-	Public Internet Access Points (PIAP) per 1000 population	NAS	eEurope + 2003 Progress Report
<b>C Rationale for participation in the Information Society</b>			

### Poland

No.	Name of indicator	Countries	Main Source
<b>A Identifying the vulnerable - Continuity vs. change</b>			
A1-3	Percentage of companies that buy and sell over the Internet	PL (E+)	Central Statistical Office
B1-1	Disabled persons	PL	Central Statistical Office
B1-2	Education for handicapped	PL	Central Statistical Office
B1-3	Students of higher education institutions receiving social scholarships	PL	Central Statistical Office
B1-4	Female students	PL	Central Statistical Office
<b>B Access to ICTs and accessibility</b>			
A1-1	Number of Public Internet Points (PIAP) per 1000 inhabitants	NAS	Ministry of Culture
A1-2	Percentage of central government websites that conform to the WAI accessibility guidelines at level A	PL (E+)	Ministry of Interior and Administration
B1-5	Internet access by place of living	PL	Ministry of Infrastructure
<b>C Rationale for participation in the Information Society</b>			

### Romania

No.	Name of indicator	Countries	Main Source
<b>A Identifying the vulnerable - Continuity vs. change</b>			
A1.1.	Rate of early-school leavers not in further education or training	RO	Ministry of Education and Research
A1.2.a	Inactive population who would like to work but think no job is available	RO	National Direction of Statistics
A1.2.b	Employment of women	RO	Employment Agency
A1.2.c	Employment of youngsters under 25 years	RO	Employment Agency
A1.2.d	Employment of Long-term Unemployed People	RO	Employment Agency
A1.3.e	Employment of Disabled persons	RO	Employment Agency
A1.3.f	Employment of Youngsters who come from Children Protection Organisations	RO	Employment Agency
A 1.3.g	Employment of Persons who are liberation from detention	RO	Employment Agency
A 1.3.h	Employment of Persons Who belong of Ethnic	RO	Employment

No.	Name of indicator	Countries	Main Source
	Minorities (Rroma)		Agency
A 1.3.i	Employment of other categories of persons who are disadvantaged in the labour market	RO	Employment Agency
A1.3.j	Minimum Income/Economy	RO	Ministry of Work and Social Solidarity
A1.4.	Population by age / age group	RO	National Direction of Statistics
A1.5.a	Existence of a longstanding health problem or disability	RO	Work Medicine reports
A1.7.a	Number of graduates of computer training course	RO	Ministry of Education and Research, Employment Agency
A1.7.b	Educational attainment conducive for ICT / IS participating skills	RO	Ministry of Education and Research, Employment Agency
A1.1.	Rate of early-school leavers not in further education or training	RO	Ministry of Education and Research
<b>B Access to ICTs and accessibility</b>			
A1.7.a	Number of graduates of computer training course	RO	Ministry of Education and Research, Employment Agency
A1.7.b	Educational attainment conducive for ICT / IS participating skills	RO	Ministry of Education and Research, Employment Agency
A2.1.	Number of Internet coverage in schools	RO	Ministry of Education and Research
A2.2.	Public Internet Access Points (PIAPs) per 1000 inhabitants	NAS	Ministry of Education and Research
<b>C Rationale for participation in the Information Society</b>			
A3.2	Use of the Internet for job-seeking	RO	Employment Agency

### Slovak Republic

No.	Name of indicator	Countries	Main Source
<b>A Identifying the vulnerable - Continuity vs. change</b>			
-	Household income	SK	SOSR
-	At-risk-of poverty rate before/after social transfer	SK	SOSR, Eurostat
-	Distribution of income (S80/S20)	SK	SOSR, Eurostat
-	Education attainment	SK	SOSR
-	Employment Rate of Older People	SK	SOSR, Eurostat
-	Education level of the household	SK	SOSR, Eurostat
-	Population by age / age group	SK	SOSR, Eurostat
-	Computer training qualifications (for employe yd )	SK	SOSR Eurostat
<b>B Access to ICTs and accessibility</b>			
A1.1.a	Equipment of private households by PCs	SK	SOSR-HBS
A1.1.b	Equipment of private households by Cable-Tvs	SK	SOSR-HBS
A1.1.c	Equipment of private households by Mobile telephone	SK	SOSR-HBS
A1.1.d	Equipment of private households by fixed tele-phones without fax	SK	SOSR-HBS

No.	Name of indicator	Countries	Main Source
A1.1.e	Equipment of private households by fixed tele-phones with fax	SK	SOSR-HBS
-	Public Internet Access Points (PIAP) per 1000 population	NAS	eEurope + 2003 Progress Report
A1.1.f	Availability of high speed access by residence	SK	SOSR-HBS
A2.1.a	Penetration of digital TV by income	SK	SOSR
A2.1.b	Penetration of internet coverage in schools	SK	SOSR , EM SR
A2.2.a	Public Internet Access Points per 1000 inhabitants	SK	SOSR, MTC SR
A2.2.b	Libraries offering Internet access to the public	SK	SOSR, MC SR
A2.2.c	Awareness regarding the Internet content	SK	SOSR, MTC SR
<b>C Rationale for participation in the Information Society</b>			
A2.2.c	Use of the Internet for job-seeking	SK	PES

## Slovenia

No.	Name of indicator	Countries	Main Source
<b>A Identifying the vulnerable - Continuity vs. change</b>			
A1.1.a	Educational attainment	SI	
A1.1.b	Rate of early-school leavers not in further education or training	SI	SORS
A1.2.a	Labour market situation of the household	SI	LFS
A1.2.b	Inactive population who would like to work but think no job is available	SI	LFS
A1.2.c	Employment Rate of Older People	SI	SORS
A1.3.a	Household income	SI	SJM
A1.3.b	At-risk-of-poverty rate before/after social transfers	SI	SORS
A1.3.c	Distribution of income	SI	SORS
A1.4.a	Educational level of the household	SI	SORS
A1.4.b	Population by age / age group	SI	LFS
A1.5.c	Existence of a longstanding health problem or disability	SI	SJM
A1.8.a	Computer literate workforce	SI	RIS
A1.8.b	Educational attainment conducive for ICT / IS participating skills	SI	SORS
A1.8.c	Percentage of individuals who can be classified as "late adopters"	SI	RIS
A1.8.d	Computer training qualifications (for employed)	SI	RIS
A1.8.e	Place where basic computer user skills have been acquired	SI	RIS
<b>B Access to ICTs and accessibility</b>			
A1.6.a	Availability of high speed access by residence (size of metropolitan area)	SI	RIS
A1.6.b	Usage of high speed access by residence (size of metropolitan area)	SI	RIS
A2.1.a	Penetration of digital TV by income	SI	RIS
A2.1.b	Rate of Internet coverage in schools	SI	RIS
A2.1.d	Internet usage quantified, by household income levels	SI	RIS
A2.2.a	Public Internet Access Points (PIAPs) per 1000 inhabitants	NAS	MIS
A2.2.c	Libraries offering Internet access to the public	SI	MIS
A2.9a	Perception of affordability of the Internet and PCs	SI	RIS
A2.10.a	How to bridge the digital divide in education / among schools?	SI	-

No.	Name of indicator	Countries	Main Source
A2. 11	Awareness regarding the Internet content	SI	-
<b>C Rationale for participation in the Information Society</b>			
A3.6	Use of the Internet for job-seeking	SI	RIS
A3.7.a	Never connected households / not connected to the Internet	SI	RIS
A3.7.b	Likelihood of going online / accessing the Internet	SI	RIS
A3.7.c	Individuals' perception of the Internet (non users)	SI	RIS
A3.12.a	Reasons for discontinuing internet service	SI	RIS
A3.12. b	Experience of using the Internet measured in time (years)	SI	RIS

## 5 e-Government

### 5.1 Key Policy Papers on e-Government in the NAS

Title of document	Author	Year	Type of document
<b>Key Supranational policy documents relevant to e-Government</b>			
eEurope+ 2003. A Cooperative Effort to Implement the Information Society in Europe	European Commission and Candidate Countries	June 2001	Action Plan
eEurope+ 2003. Progress Report	European Commission and Candidate Countries	June 2002	Report
Ministerial Conclusions	European Ministerial Conference, Ljubljana	June 2002	Statement
<b>Key documents relevant to e-Government from Bulgaria</b>			
Strategy for Information society development	Ministry of Economy	1999	Action plan
Law on electronic signature	Parliament	2001	Law
National programme for integrated administrative services	Government	2001	Strategy
Bulgaria: ICT infrastructure and e-readiness Assessment	ARC fund	2002	Report
Implementation of IT in the BG state administration	Council of Ministers and American agency for trade and commerce	2002	Documentation
Analyses of the legal framework in ICT sector in Bulgaria	Centre of economic development	2002	Report
Strategy for e-Government (as part of the Strategy for integration in EU)	Government	2002	Strategy
Concept for improvement of administrative services in the context of 'one kiosk?' (as part of the Strategy for integration in EU)	Government	2002	Strategy
<b>Key documents relevant to e-Government from the Czech Republic</b>			
State Information Politics – The Way to the Information Society	Government	latest 1999	Report
Concept of public administration information system	Government	latest 1999	Strategy
Information strategy of ministries	Ministeries	2000	Strategy
Concept of public administration information system for regions	Ministry of Interior	2001	Strategy
Communication infrastructure for public administration (GovNet)	Government	2001	Strategy
Communication infrastructure for public administration (GovNet)	ÚVIS	2001	Other (contract)
Action Plan for the Realization of the State's Information Politics	Office for Public Information Systems	latest 2002	Action plan
<b>Key documents relevant to e-Government from Estonia</b>			
Principles of Estonian Information Policy	Ministry of Economic Affairs and Communications	1998	Principles
Tax Board Annual Report 2001	National Tax Board	2001	Report
Information Policy Action Plan	Ministry of Economic Affairs and Communications	latest 2001	Action plan



Title of document	Author	Year	Type of document
Public Information Act	Ministry of Economic Affairs and Communications	2001	Legal Act
Public Procurement Act	Ministry of Economic Affairs and Communications	2001	Legal Act
IT in Public Administration, Yearbook	Ministry of Economic Affairs and Communications	latest 2002	Report
Estonian National Development Plan. Single Programming Document 2003-2006	Government, Ministries	2002	Action Plan
E-Europe+ 1 <sup>st</sup> Progress Report - Estonia	Ministry of Transport and Communications	March 2002	Report
Estonian Information Policy and ICT Coordination. Estonia	State Information Systems Department, Estonian Informatics Centre	Sep 2002	ICA Round Table Report
E-Policy Development in Transition Economies. Estonia	Estonian Informatics Centre	2002	Report
State Liability Act	Ministry of Economic Affairs and Communications	2002	Legal Act
<b>Key documents relevant to e-Government from Hungary</b>			
Government Decree 95/1999 on the functioning of the Program on National Information Infrastructure Development (NIIF)	Special committee nominated by the Gvt.	1995-	Development Plan
Governmental Strategy on ICT	Hungarian Government	1997	Government strategy
National Strategy on ICT	Hungarian Government	1996	Government Strategy
Széchenyi Plan	Ministry for Economy	2000	Collection of Support Measures
Strategy of the Ministry for Informatics and Telecommunication	Ministry for Informatics & Telecommunication	2002	Strategy
Tasks and jurisdiction of the Minister for Informatics and Telecommunication	Government	2002	Government Decree
National Development Plan	Prime Minister's Office	2002	Development Plan
<b>Key documents relevant to e-Government from Latvia</b>			
Law on data protection of physical persons	Parliament (Saeima)	2000	Law
Regulations on security of information systems	Cabinet of Ministers	2000	Regulations
Conception on organisation of registration and state supervision system of Internet service providers	Ministry of Transport	2000	Green paper
Regulations on ensuring the establishment of Integrated State Information System (mega-system)	Cabinet of Ministers	2000	Regulations
Unified information system for Latvia's libraries	Cabinet of Ministers	2000	Conception
Order on state sector information publishing online	Cabinet of Ministers	2001	Instruction
Conceptual guidelines of socio-economic program "eLatvia"	Ministry of Economics	2001	Action Plan
Conception of Identification Cards	Cabinet of Ministers	2001	Conception
Conception of e-Governance	Cabinet of Ministers	2002	Conception
Law on State Information Systems	Cabinet of Ministers	2002	Law
Law on Electronic Documents	Parliament (Saeima)	2002	Law
<b>Key documents relevant to e-Government from Lithuania</b>			
Law on State Registers	Parliament	1996	Law
Law on Provision of Information to the Public	Parliament	1996	Law

Title of document	Author	Year	Type of document
Law on Legal Protection of Personal Data	Parliament	1996, 2000	Law
Law on the Right to Receive Information from State and Municipal Authorities	Parliament	2000	Law
Law on Electronic Signature	Parliament	2000	Law
The Conception of e-Government	Government	2000	Conception
Lithuania's White Book on Science and Technology	Department of Science and Higher Education of the Ministry of Science and Education	2001	White book
Privacy and security on the Lithuanian Internet	Union of Lithuanian Computer Specialists	2001	Report
Strategic Plan of Lithuanian Information Society Development	Government	2001	Documentation
Conceptual framework of the national information society development of Lithuania	Government	2001	Resolution
<b>Key documents relevant to e-Government from Poland</b>			
White Book	Office of the Council of Ministers, State committee for Scientific Research	1995	White book
Strategy of IT Development in Poland (1)	Polish IT Society	April 1995	Report
Strategy of IT Development in Poland (2)	Polish IT Society	June 1999	Report
Poland 2025 Long-term Strategy of Lasting and Sustainable Development	State Committee for Scientific Research	July 2000	Strategy
Act of RP's government concerned building bases of information society in Poland	Polish Government	July 2000	Law
Pioneer: Polish Optical Internet – Advanced Applications, Services and Technologies for Information Society	State Committee for Scientific Research	Sep 2000	Strategy
Aims and Directions of the Information Society development in Poland	State Committee for Scientific Research	Nov 2000	Strategy
National Program of preparation for membership in EU	State Committee for Scientific Research	June 2001	National Program
ePolska- Action plan: 2001-2006	Ministry of Economy	Sep 2001	Action plan
Act of law about access to the public information	Parliament	Sep 2001	Act of law
Reports on the action plan realisations	State Committee for Scientific Research	2001, 2002	Report
ePolska-2006: Active plan for IS development in Poland	Ministry of Infrastructure	2002	Action plan
Programme of proinvestment activities in ICT in Poland	National Agency for Foreign Investments	Sep 2002	Action plan
Decree of Ministry of Interior and Administration in case of Public Information Bulletin	Ministry of Interior and Administration	May 2002	Act of law
Decree of Ministry of Interior and Administration in case of Public information Bulletin	Ministry of Interior and Administration	May 2002	Act of law
Project of act of law about IT implementation of public power activity	Parliament	Nov 2002	Act of law – project
"Gateway of Poland" – initial conception of the project	State Committee for Scientific Research	Dec 2002	Project
Senate's resolution about information society	Senate	Jan 2003	Resolution
<b>Key documents relevant to e-Government from Romania</b>			

Title of document	Author	Year	Type of document
National Action Plan for Employment – 2001-2004	Work and Social Solidarity Ministry	2000	Action plan
Government Strategy on e-Administration	Romanian Government & Ministry of Public Administration	2001	Action plan
Government Strategy of public administration reform acceleration 2001-2004	Romanian Government	2001	Action plan
White paper of PSD governance	Romanian Government	2001	Report
National Development Plan - 2002-2005	Romanian Government and Development and Prognoses Ministry	2001	Action plan
<b>Key documents relevant to e-Government from Slovakia</b>			
GOVNET – Electronic Network for Government Bodies	Government of the Slovak Republic	From 1992	Project developed on the basis of the Government decision no. 310/93
NADSME – National Agency for Development of Small and Medium Enterprises	Ministry of industry SR	2000	Phare project
e-Europe+ Action Plan	Council of Government for Informatization of Society	2001	Draft of an Action Plan
Politics of informatization of society in the Slovak Republic	Government	2001	Resolution of the Slovak government
JASPI – WEB – automated system on legal information	Ministry of Justice	2002	Application based on the decision of the minister
Law N. 215/2002 on Electronic Signature	Government	2002	Act
Active information on government subsidies	Ministry of Industry	2002	Project
Law N. 215/2002 on Electronic Signature	Government	2002	Act
Active information on government subsidies	Ministry of Industry	2002	Project
Project e-Slovakia	The Government of the Slovak Republic	2002	Project description
Annual survey of Information Society In Government sector, Enterprises and Households	Statistical Office of the Slovak Republic	2003	Yearbook Information Society
<b>Key documents relevant to e-Government from Slovenia</b>			
The Act on Government of Republic of Slovenia (ZVRS)	Government	1993	Act
eEurope+ implementation activities in Slovenia	Ministry of Information Society	2001	Report
Electronic Commerce and Signature Act (ZEPEP)	Government	2001	Act
National Development Plan (NRP RS 2001-2006)	Government	2001	Action Plan
Recommendations for Building the Universally Accessible Web Sites	Ministry of Information Society	2001	Report
The Strategy of eCommerce in Public Administration (SEP-2004)	Ministry of Information Society	2001	Strategy
The Strategy of Economic Development in RS 2001-2006 (SGRS 2001-2006)	Government (UMAR)	2001	Strategy
Action Plan E-government up to 2004 (AP-2004)	Ministry of Information Society	2002	Action Plan
The Strategy of Republic of Slovenia in Information Society	Ministry of Information Society	2002	Strategy

## 5.2 NAS Data Sources on e-Government

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
<b>Key supranational data sources on e-Government</b>					
eEurope+2003, progress report, June 2002	Joint High Level Committee	An overview of action undertaken by the candidate countries since the adoption of the eEurope+ Action Plan, listing indicators measuring Information society	Joint High Level Committee	NAS including LV	2001
European Survey of Information Society (ESIS II) – Extension to Central and Eastern European Countries and Mediterranean Area	ESIS Knowledge Base	The inventory was build with information collected via a standardised questionnaire which was translated in all local languages. The questionnaire is available on the website to be filled in by project promoters. <sup>35</sup>	ISPO	CEEC and Mediterranean countries	updated every three months
Information society statistics	Statistics in focus, Theme 4-37/2001, 4-17/2002,	Information society statistics	Eurostat	NAS	1990, 1998, 1999, 2000, 2001
PHARE – Indicators for monitoring and comparison of implementation of 'e-Europe'	www.mtc.government.bg	10 Candidate countries	Ministry of Transport and Communications	10 NAS	
Reports on Monitoring Candidate Countries (Telecommunication Services Sector)	1st Report on Monitoring of EU Candidate Countries (PWC Consulting, 2002); 2nd Report on Monitoring of EU Candidate Countries (IBM, 2002)	Various sources	PWC Consulting, IBM	NAS	Various
UOE (Annual joint UNESCO-OECD-Eurostat data collection of statistics on students, teachers, graduates, expenditure)	Eurostat 2000key	administrative data collection	UNESCO-OECD-Eurostat	UN	annually

<sup>35</sup> Topics: Telecommunications basic indicators, Regulatory developments, Alternative networks, IS Promotional activities, IS Key persons contacts and organisations, www sites indicators, statistical analysis of the ESIS II database, Estimation of Information Society projects

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
<b>Key data sources on e-Government from Bulgaria</b>					
Surveys of ICT implementation in households and public administration	www.stat.bg www.nsi.bg	Households and public administration	NSI Bulgaria	BG	
<b>Key data sources on e-Government from the Czech Republic</b>					
Commercial data on Internet-related issues	Unpublished (or only partially published as press information)	Surveys of the agencies, mostly GPS	GfK, TNSF, STEM/MARK, DEMA	CZ	published data, possibility to buy the data sources
IPOS	www.ipos-mk.cz	Statistical information on public libraries	Informační a poradenské středisko pro místní kulturu (www.ipos-mk.cz)	CZ	Annually since 1999
Survey on ICT usage in enterprises	Information from database (on demand), publication will be released in fourth quarter 2003	Statistical information on enterprises	CSÚ – Czech statistical office	CZ	ICT usage in enterprises - annually since 2002 (reference years since 2000)
Survey on ICT usage in households	Information from database (on demand), publication will be released in fourth quarter 2003	Statistical information on households	CSÚ – Czech statistical office	CZ	ICT usage in households - annually since 2002
Survey on ICT usage in government	Information from database (on demand) available in fourth quarter 2003	Statistical information on government	CSÚ – Czech statistical office	CZ	ICT usage in government - annually since 2003 (reference years since 2002)
Survey on security issues	Published in Data Security Management magazine (DSM)	Surveys on enterprises and governmental bodies	Ernst Young, DSM National Security Office	CZ	Security in context of different information systems" (data from 1999, 2001 and 2003)
<b>Key data sources on e-Government from Estonia</b>					
E-track survey	IS indicators of Estonia	500 persons (aged 15-74) in month	Emor Ltd, EIC	EE	2001, 2002, 2002
E-track among children	IS indicators of Estonia	Young persons aged 6-14	Emor Ltd; EIC	EE	2001
E-track and Gallup e-ratings	<a href="http://www.emor.ee">www.emor.ee</a>	Top- and medium-level managers	Emor Ltd; EIC	EE	2002
The Household Income and Expenditure Survey	Household Living Niveau. Yearbook	820 households per month	Statistical Office of Estonia, <a href="http://www.stat.ee">www.stat.ee</a>	EE	2000, 2001

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Information technology and internet in Estonian companies (+Latvian and Lithuanian companies) (survey)	IS indicators of Estonia	Companies (500) with 1 computer at least	Emor Ltd; EIC	EE	2001, 2002, 2003
IT in Public Administration	Yearbook	Various sources	Ministry of Economic Affairs and Communication, Estonian Informatics Centre (EIC)	EE	Latest 2002
National tax Board Report	Annual Tax Board Report	Tax Board services, overview	Estonian National Tax Board	EE	Latest 2001
TSN Interactive-Global eCommerce Report. Estonia	<a href="http://www.tnsfres.com">www.tnsfres.com</a>	Enterprises	Statistical Office of Estonia	EE	June 2002
The usage of online services provided by state and government agencies	IS indicators of Estonia	State and government Agencies	Emor Ltd, EIC	EE*	2001 2002
Use of software in home computers	IS indicators of Estonia	Inhabitants aged 15-74	Emor Ltd; EIC	EE	2002
<b>Key data sources on e-Government from Hungary</b>					
Hungarian Household Panel Survey of the TÁRKI Social Research Inc.	Ten Years (Tíz Év) - A summary of Tarki Monitor Reports. Budapest 2001 dec.	Nation-wide sample of 2600 household sample since 1991	TÁRKI Social Research Inc. Budapest	HU	Annually panel between 1991 to 1997. Since 1997: independent household surveys.
Information Society Monitoring Project "Virtuális Tér Figyelo Rendszer"	Fabian Z. and al: "Internet usage of households". See <a href="http://www.tarki.hu">www.tarki.hu</a>	Various surveys targeted on households, schools and companies.	Consortium of research institutes led by TÁRKI Social Research Inc. on behalf of the State Commission for Informatics and Telecommunication.	HU	2001-2002
Information Technology and Public Administration Services	" Information Technology and Public Administration Services" Aula Publishing House, 2002. In Hungarian.	Representative survey of 800 persons	Budapest University of Economics and Public Administration	The town Kaposvar and the surrounding settlements	2002
Various sectoral surveys of the Hungarian Central Statistical Office	(1) The Information and Communication Sector In Hungary. (Az IKT Szektor Magyarországon). Bi-annual publication since 2000.	Based on secondary usage of Hungarian Central Statistical Office surveys designed for other purposes.	Hungarian Central Statistical Office, Service Statistics Department	HU	(1) Bi-annually publication since 2000. New issue: Spring 2003.

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
World Internet Project, Hungarian survey	Only media publications, see <a href="http://www.tarki.hu">www.tarki.hu</a>	Population survey among 5200 persons	TÁRKI Social Research Inc. Budapest and ITTK Information Society Trends Center	HU	Annually, since 2001
<b>Key data sources on e-Government from Latvia</b>					
Central statistical bureau	National program of Statistical information	Response on e-Europe+ initiative, data collection is based on Eurostat module 491, survey questionnaires are used.	Central statistical bureau	LV	Annually
Central statistical bureau	The statistical yearbook	Data on all topics characterising the development of country	Central statistical bureau	LV	Annually
Data of Ministry of Culture	Libraries access to internet	Electronic access to public services	Ministry of Culture	LV	2000
Ministry of Economics	Report on development of Latvia's national economy	Data on all topics characterising the development of country	Ministry of Economics	LV	2000, 2001
United Nations Economic Commission for Europe, Coordinating Unit for Operational Activities, Riga, 2002	Towards a knowledge-based economy, Country readiness assessment report, Latvia	Towards a knowledge-based economy	United Nations Economic Commission for Europe, Coordinating Unit for Operational Activities	LV	2002
Website of VITA <a href="http://www.vita.gov.lv">www.vita.gov.lv</a>	Data on e-government	Data for topic e-government	VITA	LV	2002
<b>Key data sources on e-Government from Lithuania</b>					
IT usage in public administration	Statistics Lithuania and Information Society Committee to the Government of Lithuania 2002	Volumes of PC and Internet usage in public administration	Statistics Lithuania and Information Society Committee to the Government of Lithuania	LT (municipalities, central administration)	annually
<b>Key data sources on e-Government from Poland</b>					
Level of Public Electronic Services	Cap Gemini Ernst & Young – Polish Research – March 2002	Part of KBN project „Gateway of Poland”, also comparison with EU countries	Cap Gemini Ernst & Young	PL	March 2002
<b>Key data sources on e-Government from Romania</b>					

Name of data source (Acronym)	Main publication(s) of interest for SIBIS	Description (incl. target, survey unit)	Responsible	Country coverage	Frequency
Ministry of Information and Technologies	Annual Reports	Web-sites, internet penetration	Ministry of Information and Technologies	RO	Annually since 2000
Ministry of Telecommunications	Annual Reports	Use of internet	Ministry of Telecommunications	RO	Annually since 2000
Romanian Government	Annual Reports	Government services on-line	Romanian Government	RO	Annually since 2000
<b>Key data sources on e-Government from Slovakia</b>					
Information Technologies in Households	Selected Indicators on IT in households	Census Households by EUROSTAT and OECD methodology	Statistical Office of the Slovak Republic	SK	Annually, data will be available from 2003
Information Technologies in enterprises	Selected Indicators on IT in enterprises	Annual survey by EUROSTAT and OECD methodology	Statistical Office of the Slovak Republic	SK	Annually, data will be available from 2002
Program of State Statistical Surveys	Selected indicators on Information Technology, Health Insurance Companies, the Social Insurance Agency and the National Labour Office and all Government sector	Annual survey of Information society in e-Government by OECD methodology, employees in compulsory insurance companies	Statistical Office of the Slovak Republic	SK	Annually, data will be available from 2003
Statement on Gallery KULT(MK SR) 6-01	Selected indicators on culture in the SR	Volumes of PC and Internet usage in gallery	Slovak National Gallery, Ministry of Culture	SK	Annually, data will be available from 2004
Statement on Library KULT(MK SR) 10-01	Selected indicators on culture in the SR	Volumes of PC and Internet usage in library	Slovak National Library, Ministry of Culture	SK	Annually, data will be available from 2004
Statement on Museum KULT(MK SR) 9-01	Selected indicators on culture in the SR	Volumes of PC and Internet usage in museum	Slovak National Museum, Ministry of Culture	SK	Annually, data will be available from 2004
Statement on Observatory, Planetarium, Astronomical Point and Astronomical Cabinet KULT(MK SR) 14-01	Selected indicators on culture in the SR	Volumes of PC and Internet usage in Observatory, Planetarium, Astronomical Point and Astronomical Cabinet	Central Slovak Observatory, Ministry of Culture	SK	Annually, data will be available from 2004
<b>Key data sources on e-Government from Slovenia</b>					
ICT Indicators for Slovenia and EU	Vehovar et al.	GPS	MIS	SI, EU	2001
Information Technologies in Households	Vehovar et al.	GPS	FDV (RIS)	SI	1996-2002



<b>Name of data source (Acronym)</b>	<b>Main publication(s) of interest for SIBIS</b>	<b>Description (incl. target, survey unit)</b>	<b>Responsible</b>	<b>Country coverage</b>	<b>Frequency</b>
Internet and the State	Vehovar et al.	GPS	FDV (RIS)	SI	2000-2002
The Report on Indicators in Public Administration	Tomažic et al.		IPMIT	SI	2002

### 5.3 NAS Indicators on e-Government

#### 5.3.1 Overview of selected indicators available for various countries<sup>36</sup>

Name of indicator	BG	CZ	EE	HU	LV	LT	PL	RO	SK	SI
<b>Government to Government</b>										
Availability of a (central) government network or intranet	-	<a href="http://www.mic.r.cz">www.mic.r.cz</a> <sup>37</sup>	IT in PA, 2002	-	www.vita.lv	-	-	-	-	-
<b>Government to Citizens</b>										
Percentage of the population who regularly use the Internet	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003
Percentage of households with Internet access at home	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003
Percentage of public services for citizens available online, and level of online service	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003
Percentage of Internet users visiting government websites	-	CSÚ	EMOR	-	-	-	-	Min. of Telecom.	-	RIS
<b>Government to Business</b>										
Percentage of public services for businesses available online, and level of online service	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003	eEu- rope+ 2003

<sup>36</sup> The table contains indicators for which indicators and data are available at the time of writing (national/international sources are mentioned). This does not mean, however, that direct comparability between countries is given in each case.

<sup>37</sup> Contract with Cesky Telecom

### 5.3.2 Available indicators per country

#### Bulgaria

No.	Name of indicator	Countries	Main Source
<b>A Government-to-government</b>			
<b>B Government-to-citizens</b>			
A1	Percentage of the population who regularly use the Internet	EU15, NAS	Eurostat
A2	Percentage of households with Internet access at home	EU15, NAS	Eurostat
-	Percentage of public services for citizens available online, and level of online service	NAS	eEurope+ 2003 Progress Report
<b>C Government-to-business</b>			
-	Percentage of public services for businesses available online, and level of online service	NAS	eEurope+ 2003 Progress Report

#### Czech Republic

No.	Name of indicator	Countries	Main Source
<b>A Government-to-government</b>			
<b>B Government-to-citizens</b>			
A1	Percentage of the population who regularly use the Internet	CZ	GfK (1999, 2000), TNSF (2001-2), CSÚ (since 2002).
A2	Percentage of households with Internet access at home	CZ	STEM-MARK (1999, 2000), TNSF (2001-2), CSÚ (since 2002).
A3-1	Government services online, Internet users % visiting government websites	CZ	CSÚ
A3-2	Usage of government services online; type of use	CZ	CSÚ
A4	Percentage of municipalities with an on-line presence	CZ	CSÚ
-	Percentage of public services for citizens available online, and level of online service	NAS	eEurope+ 2003 Progress Report
<b>C Government-to-business</b>			
E1-13	Percentage of public services for businesses available online, and level of online service	NAS	eEurope+ 2003 Progress Report

#### Estonia

No.	Name of indicator	Countries	Main Source
<b>A Government-to-government</b>			
A26	Internal use of ICT, Access to the Internet	EE	Estonian Informatics Centre (EIC)
A27	Internal use of ICT, Access to e-mail	EE	EIC
A28	Availability of a (central) government network or intranet		EIC
A29	Accessibility of government organisations and	EE	EIC

No.	Name of indicator	Countries	Main Source
	information		
<b>B Government-to-citizens</b>			
A1	Percentage of the population who regularly use the Internet	EE	EMOR; EIC
A2	Percentage of households with Internet access at home	EE	SOE
A3-1	Government services online, Internet users % visiting government websites	EE	EMOR; EIC
A3-2	Usage of government services online; type of use	EE	EMOR; EIC
A4	Percentage of municipalities with an on-line presence	EE	EIC
A5	Income taxes: declaration, notification of assessment	EE	NTB
A6	Online job search services by labour offices	EE	eEurope+ ; Progress report
A7	Online services concerning social security contribution payments	EE	NTB
A8	Online services concerning applications for personal documents	EE	EIC
A12	Online access to public libraries	EE	SOE
A15	Online services concerning change of addresses	EE	EIC
A16	Online offer of health-related services	EE	EIC
E1-17	Percentage of public services for citizens available online, and level of online service	NAS	eEurope+ ; Progress report
<b>C Government-to-business</b>			
A18	Online services concerning corporation tax declarations	EE	NTB
A19	Online services concerning VAT declarations	EE	NTB
A21	Online services concerning submission of data to statistical offices	EE	SOE
A22	Online services concerning customs declarations	EE	EIC
A24	Online public procurement services	EE	EIC
A30	Availability of government information at portals	EE	EIC
A31	Availability of government information at municipal sites	EE	EIC
A32	Municipality websites with e-procurement	EE	EIC
E1-13	Percentage of public services for businesses available online, and level of online service	NAS	eEurope+ ; Progress report

### Hungary

No.	Name of indicator	Countries	Main Source
<b>A Government-to-government</b>			
<b>B Government-to-citizens</b>			
A1	Percentage of the population who regularly use the Internet	EU15, NAS	Eurostat
A2	Percentage of households with Internet access at home	EU15, NAS	Eurostat
	Percentage of public services for citizens available online, and level of online service	NAS	eEurope+ 2003 Progress Report
<b>C Government-to-business</b>			

No.	Name of indicator	Countries	Main Source
	Percentage of public services for businesses available online, and level of online service	NAS	eEurope+ 2003 Progress Report

### Latvia

No.	Name of indicator	Countries	Main Source
<b>A Government-to-government</b>			
E1-18	Availability of a (central) government network or intranet	LV	www.vita.lv
<b>B Government-to-citizens</b>			
E1-1	Percentage of the population who regularly use the Internet	NAS	eEurope+2003; Progress report
E1-2	Percentage of households with Internet access at home	NAS	eEurope+2003; Progress report
E1-3	Municipal governments with home pages	LV	<a href="http://www.eparvalde.lv/site/saites/pasvaldibas/index.asp">http://www.eparvalde.lv/site/saites/pasvaldibas/index.asp</a>
E1-4	Availability: Certificates	LV	<a href="http://www.ur.gov.lv/index.php?t=3&amp;a=5#veidlapas">http://www.ur.gov.lv/index.php?t=3&amp;a=5#veidlapas</a>
E1-5	Availability: Income tax declaration	LV	<a href="http://www.vid.gov.lv">www.vid.gov.lv</a>
E1-6	Availability: Job search services by labour offices	LV	<a href="http://www.e-darbs.lv">www.e-darbs.lv</a>
E1-7	Availability: Declaration to the police	LV	<a href="http://www.pd.gov.lv">www.pd.gov.lv</a>
E1-9	Availability: Car registration	LV	<a href="http://www.csdd.lv">www.csdd.lv</a>
E1-10	Availability Online access to public libraries	LV	<a href="http://www.linc.lv">www.linc.lv</a>
E1-12	Percentage of public services for citizens available online, and level of online service	NAS	eEurope+ ; Progress report
E1-19	Availability of government information at portals	LV	<a href="http://www.lvonline.lv">www.lvonline.lv</a>
E1-20	Availability of government information at municipal sites	LV	<a href="http://www.lvonline.lv">www.lvonline.lv</a>
<b>C Government-to-business</b>			
E1-14	Availability: Corporation tax declaration	LV	<a href="http://www.vid.gov.lv">www.vid.gov.lv</a>
E1-16	Availability: Customs declaration	LV	<a href="http://www.vid.gov.lv">www.vid.gov.lv</a>
E1-17	Percentage of public services for businesses available online, and level of online service	NAS	eEurope+ ; Progress report

### Lithuania

No.	Name of indicator	Countries	Main Source
<b>A Government-to-government</b>			
A1-5.9	Total current public expenditure for IT equipment and services	LT	SL
A1-5.10	Total public capital expenditure for IT equipment and services	LT	SL
A1-5.11	Total current public expenditure for telecommunications (	LT	SL
A1-5.12	Total public capital expenditure for telecommunications	LT	SL
<b>B Government-to-citizens</b>			
-	Percentage of the population who regularly use the Internet	NAS	eEurope+ Progress Report

No.	Name of indicator	Countries	Main Source
-	Percentage of households with Internet access at home	NAS	eEurope+ Progress Report
A1-5.2	Number of public Internet access points (PIAPs)	LT	ISCD (isq)
A1-5.3	Number of public libraries providing Internet access to the public	LT	Min. of Culture (isq)
A1-5.4	Percentage of public libraries providing Internet access to the public	LT	Min. of Culture (isq)
A1-5.5	% of local public administrations having their own website	LT	SL
A1-5.6*	% of tax returns sent online (by households and companies)	LT	SL/ISDC (isq)
A1-5.7*	a) % of tax returns sent online by households	LT	SL/ISDC (isq)
A1-5.8*	b) % of tax returns sent online by companies	LT	SL/ISDC (isq)
A8-1.1	Percentage of basic public services available on-line	LT	ISDC (E+)
A8-1.2	Public forms of government on-line services - for information/ for submission of forms	LT	ISDC (E+)
A8-3.1*	Percentage of EU websites in the national top 50 visited	LT	ISDC
A8-4.1	Availability: Income tax declaration	LT	ISDC (E+)
A8-4.2	Availability: Job search services by labour offices	LT	ISDC (E+)
A8-4.3	Availability: Social security contributions	LT	ISDC (E+)
A8-4.4	Availability: Personal documents	LT	ISDC (E+)
A8-4.5	Availability: Car registration	LT	ISDC (E+)
A8-4.6	Availability: Public libraries	LT	ISDC (E+)
A8-4.7	Availability: Certificates	LT	ISDC (E+)
A8-4.8	Availability: Enrolment in University	LT	ISDC (E+)
-	Percentage of public services for citizens available online, and level of online service	NAS	eEurope+ Progress report
<b>C Government-to-business</b>			
-	Percentage of public services for businesses available online, and level of online service	NAS	eEurope+ Progress report
A8-5.1	Availability: Social contribution for employees	LT	ISDC (E+)
A8-5.2	Availability: Corporation tax declaration	LT	ISDC (E+)
A8-5.3	Availability: VAT declaration	LT	ISDC (E+)
A8-5.4	Availability: Registration of new company	LT	ISDC (E+)
A8-5.5	Availability: Environment-related permits	LT	ISDC (E+)
A8-5.6	Availability: Submission of data to statistical offices	LT	ISDC (E+)
A8-5.7	Availability: Public procurement	LT	ISDC/SL (E+/si)
A8-1.3	Percentage of public procurement which can be carried out on-line	LT	ISDC (E+)

### Poland

No.	Name of indicator	Countries	Main Source
<b>A Government-to-government</b>			
<b>B Government-to-citizens</b>			
-	Percentage of the population who regularly use the Internet	NAS	eEurope+ Progress Report
-	Percentage of households with Internet access at home	NAS	eEurope+ Progress Report
A1-1	Percentage of public services for citizens avail-	NAS	Ministry of Interior

No.	Name of indicator	Countries	Main Source
	able online, and level of online service		and Administration
A1-2	Public forms of government on-line services - for information/for submission of forms	PL (E+)	Ministry of Interior and Administration
B1-1	Number of Internet services of local government	PL	Data presented at "Cities in the Internet" Conference
B1-2	Level of electronic public services in Poland and EU countries	PL	Gap Gemini Ernst&Young
<b>C Government-to-business</b>			
-	Percentage of public services for businesses available online, and level of online service	NAS	eEurope+ Progress Report
A1-3	Percentage of public procurement which can be carried out – on line	PL (E+)	Office of Public Procurement

### Romania

No.	Name of indicator	Countries	Main Source
<b>A Government-to-government</b>			
<b>B Government-to-citizens</b>			
A1	Percentage of the population who regularly use the Internet	NAS	eEurope+ Progress Report
A2	Percentage of households with Internet access at home	NAS	eEurope+ Progress Report
A3-1	Government services online, Internet users % visiting government websites	RO	Ministry of Telecommunications
A3-2	Usage of government services online; type of use	RO	National Commission of Statistics
A4	Percentage of municipalities with an on-line presence	RO	Romanian Government
A5	Availability: Job search services by labour offices	RO	Employment Agency
A6	Availability: Personal documents	RO	Romanian Government
A7	Availability: Public libraries	RO	Ministry of Education and Research
A13	Accessibility of government organisations and information	RO	Romanian Government
A14	Availability of government information at portals	RO	Romanian Government
A15	Availability of government information at municipal sites	RO	Romanian Government
A16	Confidence in the Civil Service	RO	National Commission of Statistics
A17	Mode of Access to Government	RO	Romanian Government
A18	Demand for Electronic Services	RO	Romanian Government
-	Percentage of public services for citizens available online, and level of online service	NAS	eEurope+ Progress Report
<b>C Government-to-business</b>			
A8	Availability: Submission of data to statistical offices	RO	National Commission of Statistics

No.	Name of indicator	Countries	Main Source
A9	Availability: Public procurement	RO	Ministry of Information and Technologies
-	Percentage of public services for businesses available online, and level of online service	NAS	eEurope+ Progress Report

### Slovak Republic

No.	Name of indicator	Countries	Main Source
<b>A Government-to-government</b>			
A1	Communication between government agencies	SK	GOVNET
<b>B Government-to-citizens</b>			
A1	Percentage of the population who regularly use the Internet	EU15, NAS	Eurostat
A2	Percentage of households with Internet access at home	EU15, NAS	Eurostat
-	Percentage of public services for citizens available online, and level of online service	NAS	EEurope+ 2003 Progress Report
<b>C Government-to-business</b>			
-	Percentage of public services for businesses available online, and level of online service	NAS	EEurope+ 2003 Progress Report

### Slovenia

No.	Name of indicator	Countries	Main Source
<b>A Government-to-government</b>			
<b>B Government-to-citizens</b>			
A1	Percentage of the population who regularly use the Internet	NAS	eEurope+ 2003
A2	Percentage of households with Internet access at home	NAS	eEurope+ 2003
A3-2	Usage of government services online; type of use	SI	RIS
A4	Percentage of municipalities with an on-line presence	SI	MIS
A5	Availability: Income taxes: declaration, notification of assessment	SI	IPMIT
A6	Availability: Job search services by labour offices	SI	IPMIT
A7	Availability: Social security contributions	SI	IPMIT
A8	Availability: Personal documents	SI	IPMIT
A9	Availability: Car registration	SI	IPMIT
A10	Availability: Application for building permission	SI	IPMIT
A11	Availability: Declaration to the police	SI	IPMIT
A12	Availability: Public libraries	SI	IPMIT
A13	Availability: Certificates: request and delivery	SI	IPMIT
A14	Availability: Enrolment in higher education/ university	SI	IPMIT
A15	Availability: Announcement of moving	SI	IPMIT
A16	Availability: Health related services	SI	IPMIT
A44	Interest for Electronic Services	SI	RIS



No.	Name of indicator	Countries	Main Source
A46	Mode of Access to Government	SI	RIS
-	Percentage of public services for citizens available online, and level of online service	NAS	eEurope+ 2003 Progress Report
<b>C Government-to-business</b>			
A17	Availability: Social contribution for employees	SI	IPMIT
A18	Availability: Corporation tax: declaration, notification	SI	IPMIT
A19	Availability: VAT: declaration, notification	SI	IPMIT
A20	Availability: Registration of a new company	SI	IPMIT
A21	Availability: Submission of data to statistical offices	SI	IPMIT
A22	Availability: Customs declarations	SI	IPMIT
A23	Availability: Environment-related permits	SI	IPMIT
A24	Availability: Public procurement	SI	IPMIT
-	Percentage of public services for businesses available online, and level of online service	NAS	eEurope+ 2003 Progress Report